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DEPARTMENT OF TRANSPORTATION

COAST GUARD

OCEANOGRAPHIC OBSERVATIONS

NORTH ATLANTIC OCEAN STATION CHARLIE

April 1967 - April 1968

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NORTH ATLANTIC OCEAN STATION CHARLIE

April 1967 - April 1968

Lawrence J. Hannon

United States Coast Guard
Oceanographic Unit
Washington, D.C.

April 1974

USCGC HAMILTON (WHEC 715)

ABSTRACT

Oceanographic data from ten cruises on Ocean Station CHARLIE (52°45′N, 35°30′W) during the period April 1967 to April 1968 are presented. These data consist of observed and interpolated temperature and salinity data from 187 shallow ($\leq$1500 meters) and 7 deep ($>$1500 meters) casts. Temperature-depth and salinity-depth distribution plots show that the temperature distribution follows a seasonal trend, but the salinity distribution is more diverse. Temperature-salinity plots for the deep casts indicate the presence of Labrador Sea Water and Northeast Atlantic Deep Water. The thermohaline characteristics of the –20 salinity anomaly (Bubnov, 1967) indicate water of Subarctic Intermediate Water characteristics at Ocean Station CHARLIE. Examination of the sea surface temperature and salinity shows that Subarctic Intermediate Water was formed in the area of Ocean Station CHARLIE from January to April 1968 but not from June to November 1967.

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OCEANOGRAPHIC OBSERVATIONS NORTH ATLANTIC OCEAN STATION CHARLIE 52°45′N, 35°30′W April 1967–April 1968

by

Lawrence J. Hannon[1]

INTRODUCTION

Ocean Station CHARLIE is one of several ocean stations in the North Atlantic Ocean at which U.S. Coast Guard cutters regularly collect meteorological and oceanographical data. This report is the third United States Coast Guard Oceanographic Report (CG 373 Series) on Ocean Station CHARLIE. The two previous reports cover the periods June 1964 to January 1965 (Husby, 1966) and May 1966 to March 1967 (Husby, 1968).

DATA ACQUISITION AND PROCESSING

This report contains time series oceanographic data that were collected by the U.S. Coast Guard ocean station vessels at Ocean Station CHARLIE (52°45′N, 35°30′W) during the period April 1967 to April 1968 (Table 1).

Ocean station vessels normally maintain position within a ten mile square grid centered on the nominal station, operations and weather permitting. Actual positions of the stations taken during each patrol are presented in figures 1–10. Only those stations taken outside the ten mile square grid have been plotted.

The observational program consisted of daily Nansen casts with sampling depths of 0, 10, 30, 50, 75, 100, 150, 200, 400, 500, 600, 800, 1000, and 1500 meters. For deep casts, sampling depths were 2000, 2500, 3000, and 150 and 50 meters above the bottom as indicated by the vessels' fathometer. In April 1968 the USCGC HAMILTON was one of the first ocean station vessels on an ocean station to use the Bissett-Berman Model 9006–N Salinity/Temperature/Depth Measuring System (STD). The STD casts were taken to a depth of 1500 meters each day at 0000, 0600, 1200, and 1800 GMT, weather and other operations permitting.

Each Nansen bottle was equipped with two protected deep-sea reversing thermometers. In addition five Nansen bottles, used at 200 meters and below, were fitted with an unprotected thermometer to allow determination of thermometric depths. Uncorrected main and auxiliary temperatures were transmitted via radio teletype to the Coast Guard Oceanographic Unit for real-time data processing and quality control.

Corrected temperatures and thermometric depths were computed with a Digital Equipment Corp. PDP–5 computer. After being quality controlled, these data were relayed to Fleet Weather Center, Norfolk, Va., and to Fleet Numerical Weather Central, Monterey, Calif., for use in forecasting synoptic oceanic conditions.

Salinities were determined aboard ship using an inductive salinometer. The conductivity values obtained were converted to salinities using the International Oceanographic Tables published jointly in 1966 by UNESCO and the National Institute of Oceanography of Great Britain. The results were sent to the Coast Guard Oceanographic Unit by radio teletype at intervals of 3–5 days. A second water sample was collected from the top and bottom Nansen bottles; these samples were processed at the Coast Guard Oceanographic Unit as a quality control.

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TABLE 1.—Oceanographic cruises on Ocean Station CHARLIE, April 1967 to April 1968.

Cruise No.	Vessel	Dates	Number of Casts		NODC Reference Number
			Shallow	Deep	
*C–11	USCGC INGHAM	12–30 Apr 67	14	1 (3099m)	31–886
C–12	USCGC CASTLE ROCK	25 May–14 Jun 67	21	1 (3391m)	31–1081
C–13	USCGC MENDOTA	9 Jul–1 Aug 67	24	1 (3453m)	31–1138
C–14	USCGC CHINCOTEAGUE	2–24 Aug 67	21	1 (3350m)	31–1143
C–15	USCGC BIBB	26 Aug–16 Sep 67	21	1 (3527m)	31–1159
C–16	USCGC OWASCO	15 Oct–2 Nov 67	11	1 (3457m)	31–1172
C–17	USCGC SEBAGO	28–30 Nov 67	2	1 (3500m)	31–1186
C–18	USCGC ESCANABA	11–31 Jan 68	17	0	31–1201
**C–19	USCGC SPENCER	28 Feb–14 Mar 68	8	0	31–1253
C–20	USCGC HAMILTON	10 Apr–1 May 68	55 STD	0	31–8043

*The C in the cruise number indicates Ocean Station CHARLIE. The number is the occupation number.
**No salinity data.

Data (STD) taken by the HAMILTON were relayed directly to Fleet Weather Center, Norfolk, Va. for use in forecasting synoptic oceanic conditions. In addition, all the data were returned to the Coast Guard Oceanographic Unit for quality control prior to submission to the National Oceanographic Data Center (NODC). The interpolated temperatures and salinities for standard depths, sigma-t values, specific volume anomalies, and sound velocities were computed by NODC and are presented in Appendix A.

Analysis of the oceanographic data was based on the distribution of temperature versus depth (figs. 11–20) and salinity versus depth (figs. 21–29). Temperature-salinity curves for all stations deeper than 1500 meters are shown in figure 30. The method of salinity anomalies from Helland-Hansen and Nansen (1926) was applied to the data for analysis of the presence of Subarctic Intermediate Water.

INTERPRETATION OF RESULTS

Temperature and Salinity Distributions

The maximum temperatures, which ranged from 11.80° C. to 12.20° C., occurred at the surface during August 1967 (fig. 14). The isothermal layer reached its greatest depth of about 200 meters in February and March 1968 (fig. 19) as a result of increased mixing due to wind and low surface temperatures.

The minimum salinities, which ranged from 34.67°/$_{oo}$ to 34.81°/$_{oo}$, occurred near the surface during January 1968 (fig. 28). Although the range of the salinity minimum varied, there was a constant renewal of low salinity water at the surface during the year. (This low salinity intrusion will be discussed under Subarctic Intermediate Water.) The salinity maximum of 35.10°/$_{oo}$ occurred in July 1967 at a depth of about 200 meters (fig. 23).

Labrador Sea Water (LS) and Northeast Atlantic Deep Water (NEAD)

Temperature-salinity plots (potential temperature was used for temperatures below 4° C) were constructed for all seven deep casts at Ocean Station CHARLIE (fig. 30). The points characteristic of the deep water masses in the area of Ocean Station CHARLIE are indicated on the T-S plots. These deep water masses and their acronyms are listed in Table 2 along with the scientists who defined them. Hereafter the acronyms in Table 2 will be used.

The most striking features of these deep T-S relationships are the salinity minimum at about 1000 meters depth and the increasing salinity values below 1000 meters. The salinity minimum is the result of the influence of LS. The increasing salinities below 1000 meters tend toward water of NEAD origin. According to Lee and Ellett (1967), NEAD is Scotland-Iceland overflow from the Norwegian Sea while NWAB is Greenland-Iceland overflow from the Norwegian Sea. They further theorized that NAD was formed by the mixing of NEAD with NWAB. Note that no NWAB or NAD is indicated by the T-S diagrams. It appears that Ocean Station CHAR-

TABLE 2.—Deep water masses of Ocean Station CHARLIE.

Water Mass	Acronyms	Defined By
Labrador Sea Water	LS	Worthington and Metcalf (1961)
North Atlantic Deep Water	NAD	Worthington and Metcalf (1961)
Northeast Atlantic Deep Water	NEAD	Worthington and Metcalf (1961) and by Lee and Ellett (1967)
Northwest Atlantic Bottom Water	NWAB	Lee and Ellett (1967)

LIE is too far southeast to be influenced by NWAB; thus, no NAD is formed.

Subarctic Intermediate Water (SAI)

The method of salinity anomalies from Helland-Hansen and Nansen (1926) was applied to the data collected on Ocean Station CHARLIE, April 1967 to April 1968. This method requires the determination of a T-S curve which is not influenced by the water mass or area to be studied. Using the Sargasso Sea T-S curve (Iselin, 1936) as a standard (fig. 31), observed T-S values from Ocean Station CHARLIE were compared, and the salinity anomalies (differences) were determined.

The results indicated a high negative salinity anomaly in the upper 200 meters at Ocean Station CHARLIE. A negative salinity anomaly value defines a salinity which is less than the salinity of the standard curve at a given temperature. A value of –20, for example, means that the observed value is .200°/$_{oo}$ less than the standard curve at the corresponding temperature.

Bubnov (1967) stated that the –20 salinity anomaly outlined the area of formation of SAI. The mean and the standard deviation of the depth, temperature, salinity, and sigma-t of the –20 salinity anomaly at O.S. CHARLIE (Table 3) for the period, April 1967 to April 1968, and their ranges were compared with the characteristics of SAI (Bubnov, 1968). This comparison between Bubnov's characteristics and O.S. CHARLIE'S characteristics is presented in Table 4 and shows a very good correlation. This close correlation, then, justified the use of the –20 salinity anomaly at O.S. CHARLIE as an indicator of the presence of SAI.

A comparison of the characteristics of SAI found in Table 4 with those of individual cruises in Table 3 would seem to indicate that water characteristic of SAI is present at Ocean Station CHARLIE during the entire year. However, to consider O.S. CHARLIE to be in the area of formation of SAI, the temperatures and salinities at the surface must also be characteristic

TABLE 3.—The mean and standard deviations of the depth, temperature, salinity, and sigma-t of the –20 salinity anomaly on Ocean Station CHARLIE, April 1967 to April 1968.

Date	Number of Stations*	Depth (m)	Temperature (°C)	Salinity (°/$_{oo}$)	Sigma-t
Apr 67	14**	52±29	6.24±.40	34.84±.01	27.42±.04
May–Jun 67	21**	78±44	6.69±1.0	34.86±.05	27.37±.11
Jul–Aug 67	24	63±18	7.86±.50	34.92±.03	27.25±.05
Aug 67	21	78±26	7.53±.66	34.90±.03	27.28±.07
Aug–Sep 67	21	71±09	8.15±.37	34.94±.03	27.22±.04
Oct–Nov 67	11	115±27	6.83±.77	34.87±.04	27.35±.08
Nov 67	2	125±06	7.20±.11	34.88±.00	27.31±.01
Jan 68	16**	115±31	6.62±.33	34.85±.02	27.38±.04
Apr 68	54 STD	129±28	6.20±.13	34.84±.005	27.42±.02

*Not all stations on every cruise had salinity data.

**No –20 salinity anomaly was observed for 7 of 14 stations in April 67, 12 of 21 in May–June 67, and 1 of 16 in January 68.

TABLE 4.—Comparison of Bubnov's characteristics of Subartic Intermediate Water with the characteristics of the –20 salinity anomaly on Ocean Station CHARLIE, April 1967 to April 1968.

	T°C	Salinity (‰)	Sigma-t	Vertical Thickness (m)
Bubnov's Southern Area of Formation	4.5–7.0	34.70–35.00	27.40–27.70	150–200
-20 Salinity	6–8	34.83–34.92	27.25–27.43	100–160

of SAI. The means and standard deviations of the sea surface temperatures and salinities were computed for all cruises on Ocean Station CHARLIE (Table 5). Table 5 and the characteristics of the –20 salinity anomaly (Table 4) show that Ocean Station CHARLIE was in the area of formation of SAI during April 1967 to June 1967 and January 1968 to April 1968.

Bubnov (1968) proposed two areas of formation of SAI. Ocean Station CHARLIE is near Bubnov's southern area of formation (fig. 32). Although he admitted the lack of winter and summer data, Bubnov believed that SAI was formed during the entire year in both the northern and the southern areas. Due to the close proximity and similar climatological conditions in the area of Ocean Station CHARLIE and the southern area of formation, it is unlikely that SAI was formed from July to November 1967 in the southern area. No conclusions can be made for the northern area of formation based on Ocean Station CHARLIE data.

TABLE 5.—The means and standard deviations of the sea surface temperature and salinity on Ocean Station CHARLIE April 1967 to April 1968.

Month	Number of Stations	Sea Surface Temperature (°C)	Sea Surface Salinity (‰)
Apr 67	14	6.59±.20	34.84±.03
May–Jun 67	21	8.22±.61	34.88±.07
Jul–Aug 67	24	10.88±.55	34.83±.04
Aug 67	21	11.50±.34	34.76±.04
Aug–Sep 67	21	11.08±.31	34.81±.05
Oct–Nov 67	11	9.20±.30	34.77±.04
Nov 67	2	8.30±.10	34.78±.02
Jan 68	17	7.00±.19	34.75±.07
Feb–Mar 68	8	6.78±.55	NONE
Apr 68	55 STD	6.51±.25	34.77±.04

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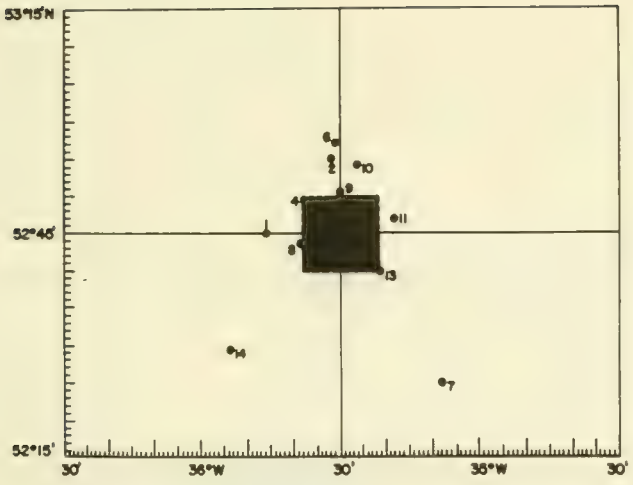

FIGURE 1. Positions of oceanographic stations taken by USCGC INGHAM at Ocean Station CHARLIE, 12–30 April 1967.

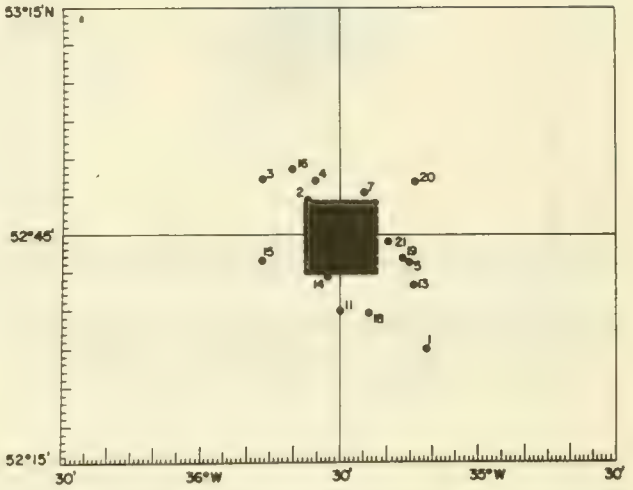

FIGURE 2. Positions of oceanographic stations taken by USCGC CASTLE ROCK at Ocean Station CHARLIE, 25 May to 14 June 1967.

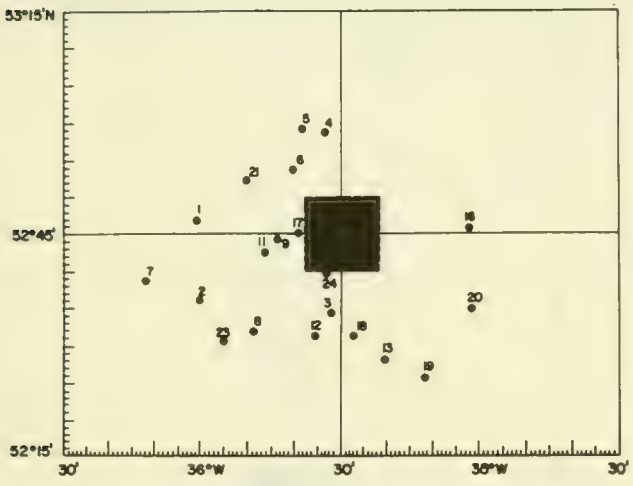

FIGURE 3. Positions of oceanographic stations taken by USCGC MENDOTA at Ocean Station CHARLIE, 9 July to 1 August 1967.

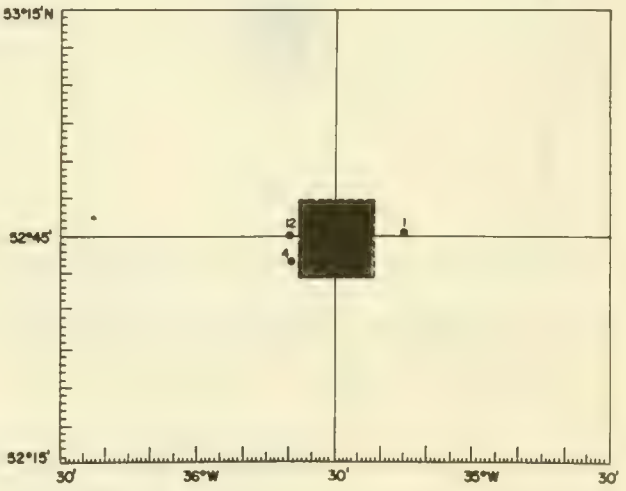

FIGURE 4. Positions of oceanographic stations taken by USCGC CHINCOTEAGUE at Ocean Station CHARLIE, 2–24 August 1967.

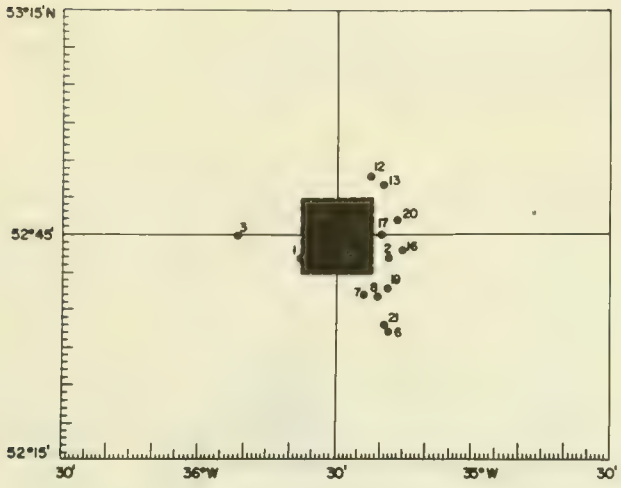

FIGURE 5. Positions of oceanographic stations taken by USCGC BIBB at Ocean Station CHARLIE, 26 August to 16 September 1967.

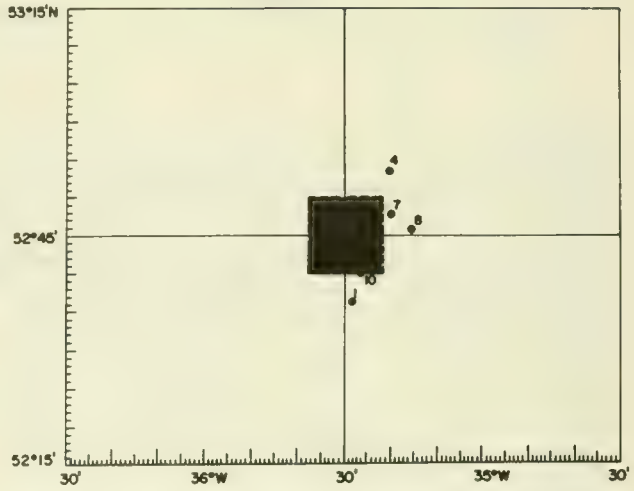

FIGURE 6. Positions of oceanographic stations taken by USCGC OWASCO at Ocean Station CHARLIE, 15 October to 2 November 1967.

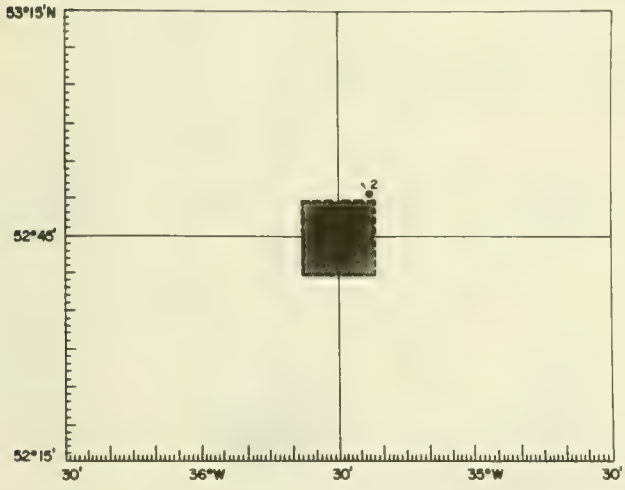

FIGURE 7. Positions of oceanographic stations taken by USCGC SEBAGO at Ocean Station CHARLIE, 28–30 November 1967.

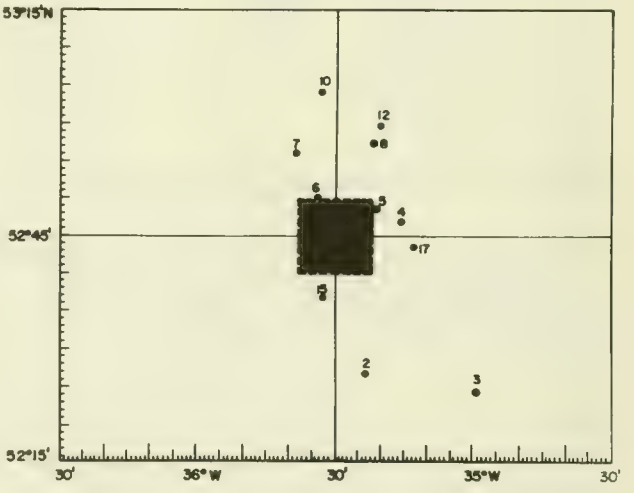

FIGURE 8. Positions of oceanographic stations taken by USCGC ESCANABA at Ocean Station CHARLIE, 11–31 January 1968.

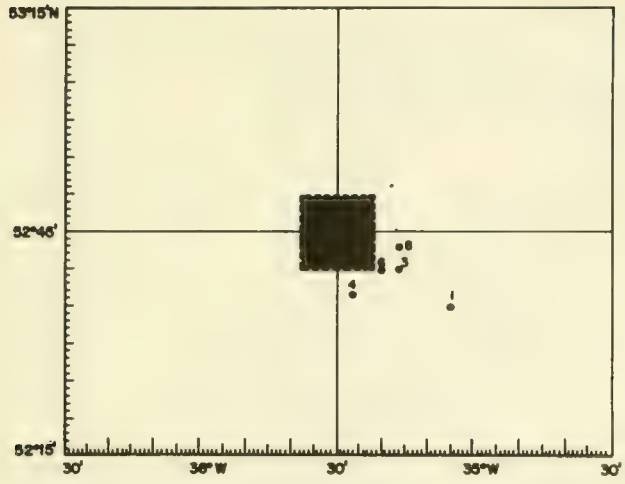

FIGURE 9. Positions of oceanographic stations taken by USCGC SPENCER at Ocean Station CHARLIE, 28 February to 14 March 1968.

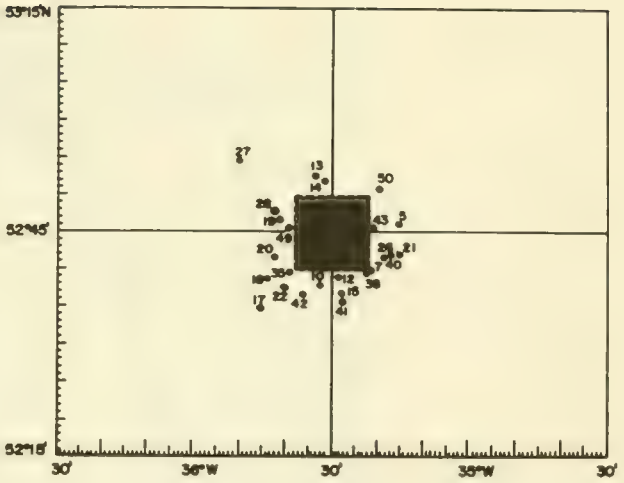

FIGURE 10. Positions of oceanographic stations taken by USCGC HAMILTON at Ocean Station CHARLIE, 10 April to 1 May 1968.

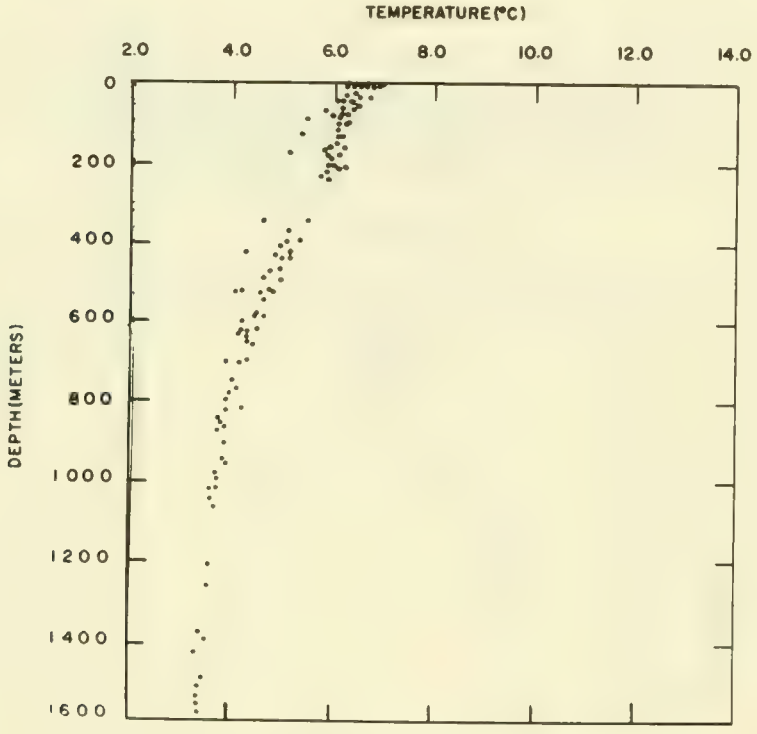

FIGURE 11. Vertical distributions of temperature versus depth at oceanographic stations taken by USCGC INGHAM at Ocean Station CHARLIE, 12–30 April 1967.

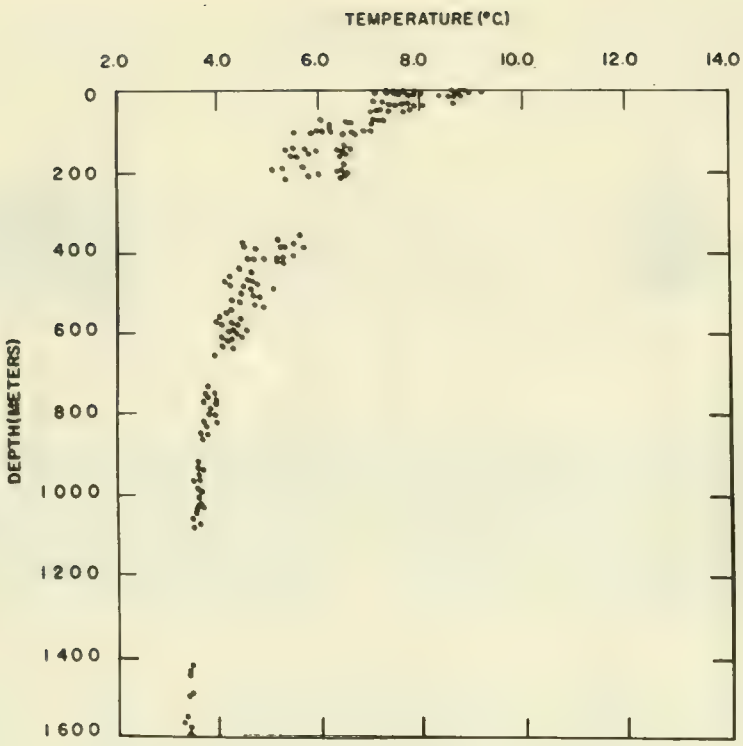

FIGURE 12. Vertical distributions of temperature versus depth at oceanographic stations taken by USCGC CASTLE ROCK at Ocean Station CHARLIE, 25 May to 14 June 1967.

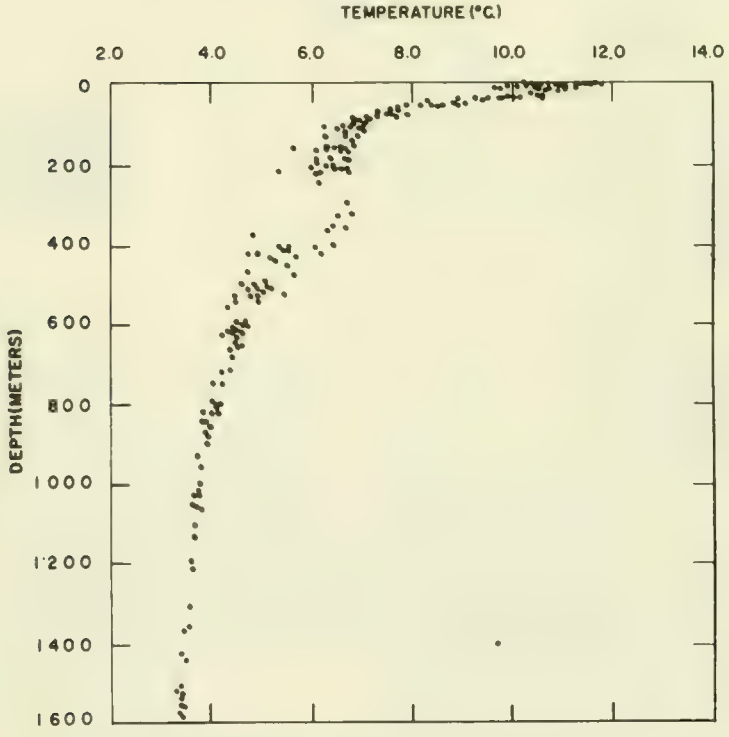

FIGURE 13. Vertical distributions of temperature versus depth at oceanographic stations taken by USCGC MENDOTA at Ocean Station CHARLIE, 9 July to 1 August 1967.

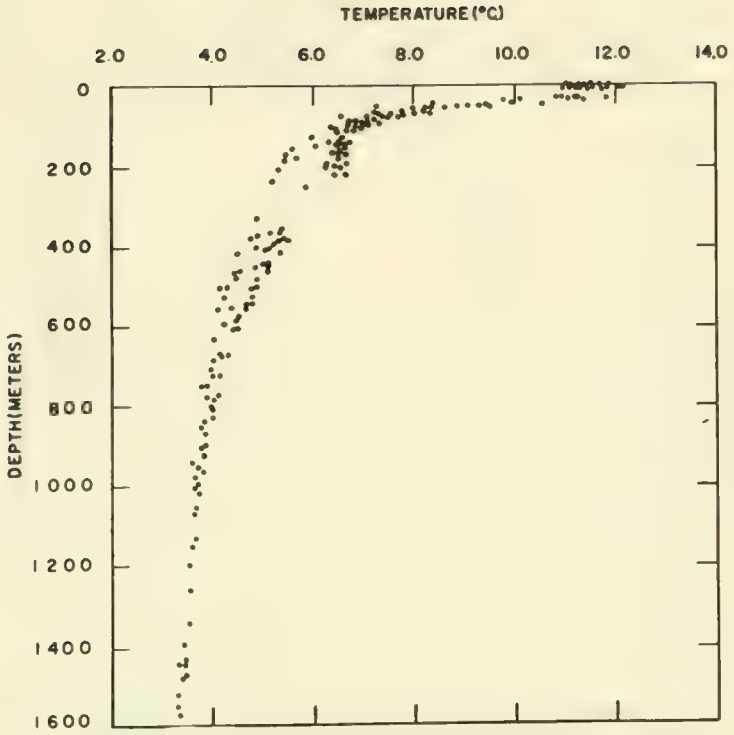

FIGURE 14. Vertical distributions of temperature versus depth at oceanographic stations taken by USCGC CHINCOTEAGUE at Ocean Station CHARLIE, 2–24 August 1967.

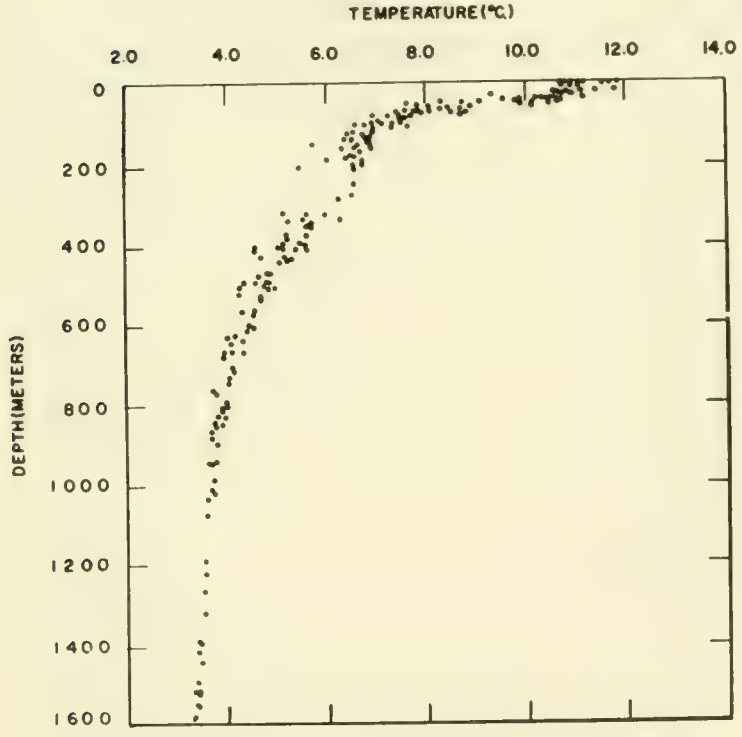

FIGURE 15. Vertical distributions of temperature versus depth at oceanographic stations taken by USCGC BIBB at Ocean Station CHARLIE, 26 August to 16 September 1967.

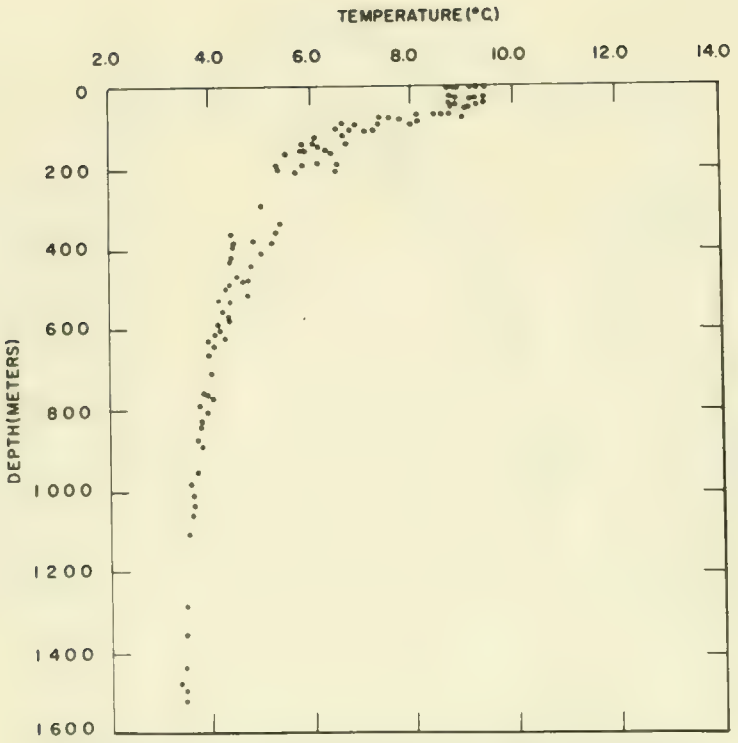

FIGURE 16. Vertical distributions of temperature versus depth at oceanographic stations taken by USCGC OWASCO at Ocean Station CHARLIE, 15 October to 2 November 1967.

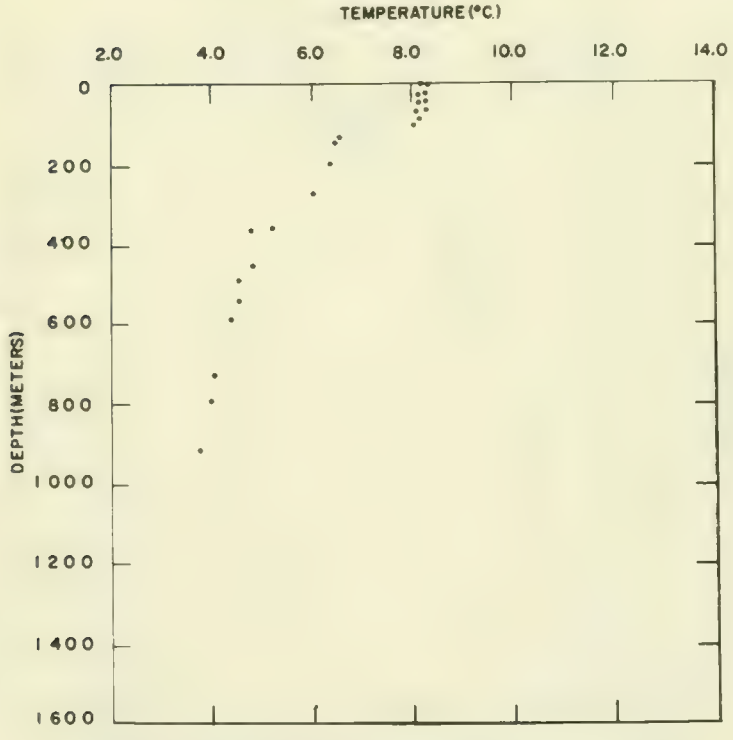

FIGURE 17. Vertical distributions of temperature versus depth at oceanographic stations taken by USCGC SEBAGO at Ocean Station CHARLIE, 28–30 November 1967.

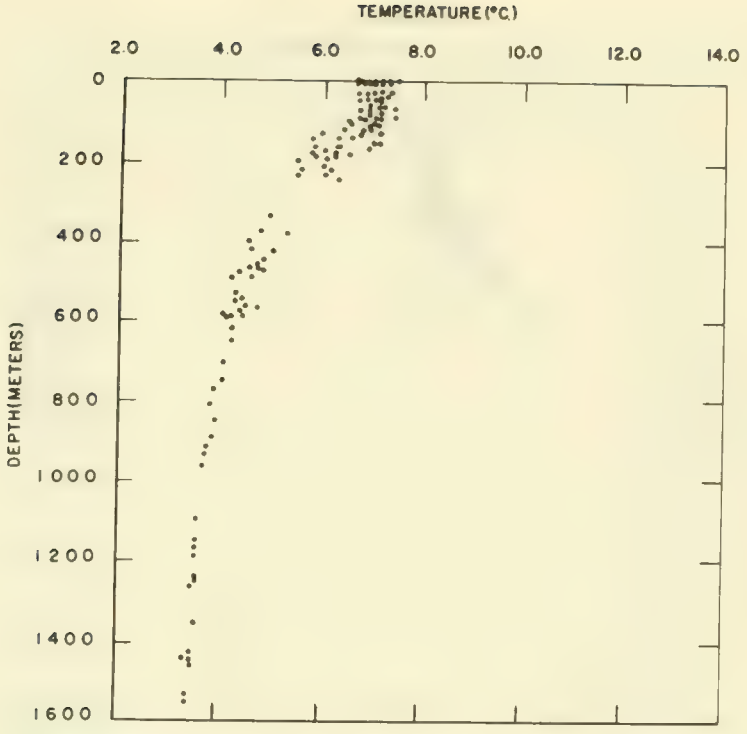

FIGURE 18. Vertical distributions of temperature versus depth at oceanographic stations taken by USCGC ESCANABA at Ocean Station CHARLIE, 11–31 January 1968.

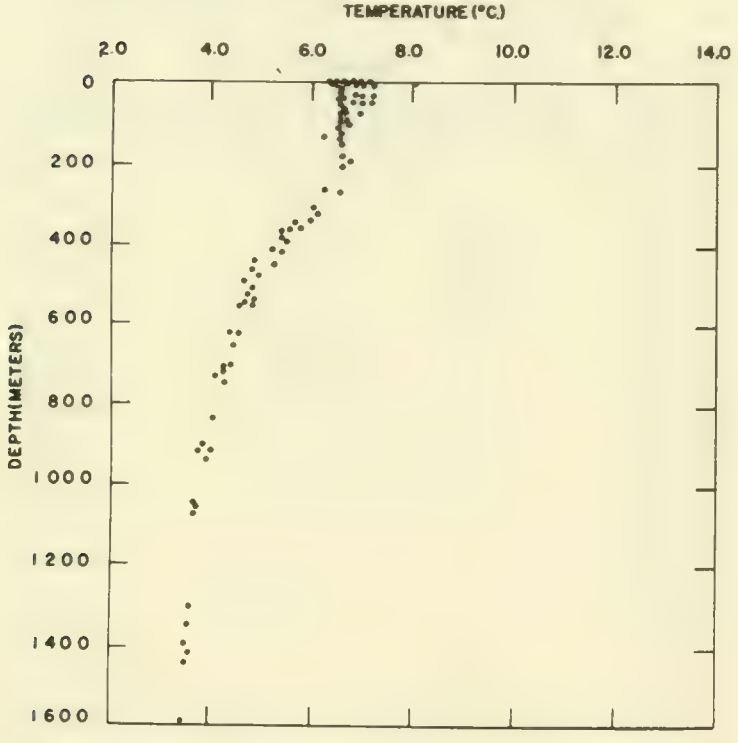

FIGURE 19. Vertical distributions of temperature versus depth at oceanographic stations taken by USCGC SPENCER at Ocean Station CHARLIE, 28 February to 14 March 1968.

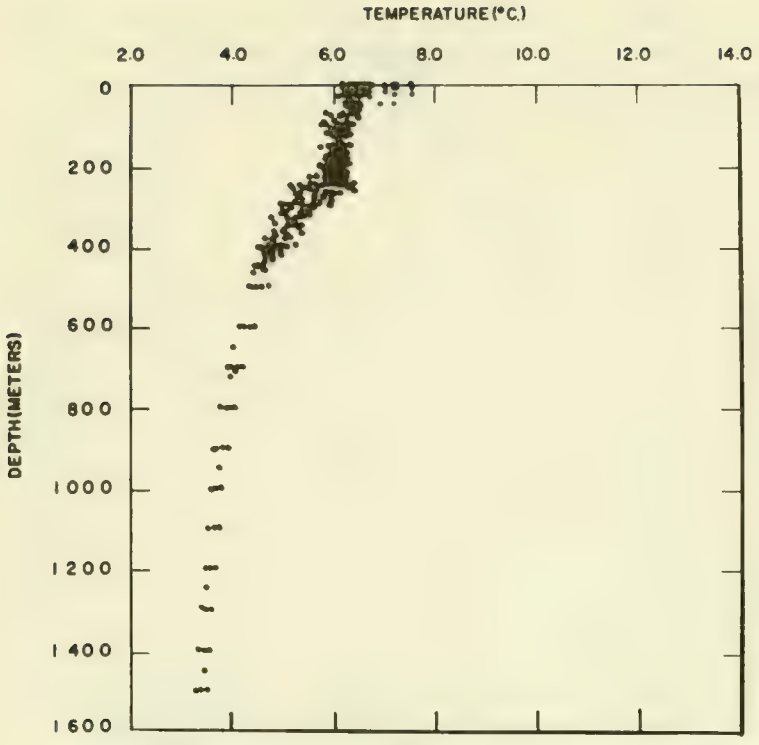

FIGURE 20. Vertical distributions of temperature versus depth at oceanographic stations taken by USCGC HAMILTON, with a Salinity-Temperature-Depth (STD) sensor, at Ocean Station CHARLIE, 10 April to 1 May 1968.

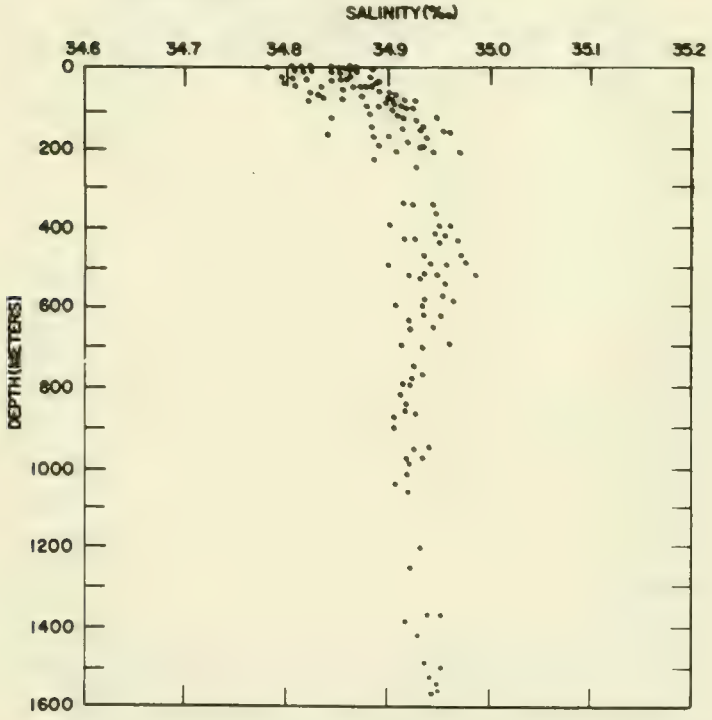

FIGURE 21. Vertical distributions of salinity versus depth at oceanographic stations taken by USCGC INGHAM at Ocean Station CHARLIE, 12–30 April 1967.

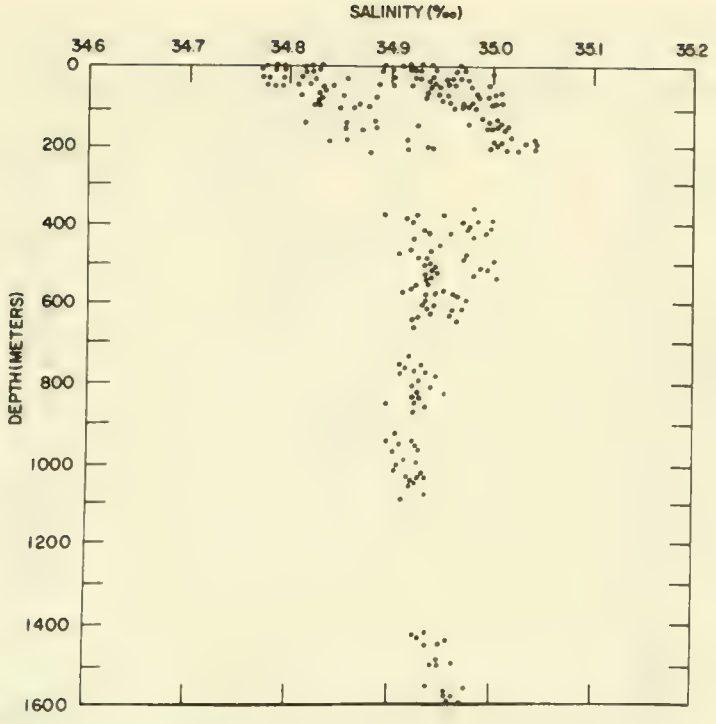

FIGURE 22. Vertical distributions of salinity versus depth at oceanographic stations taken by USCGC CASTLE ROCK at Ocean Station CHARLIE, 25 May to 14 June 1967.

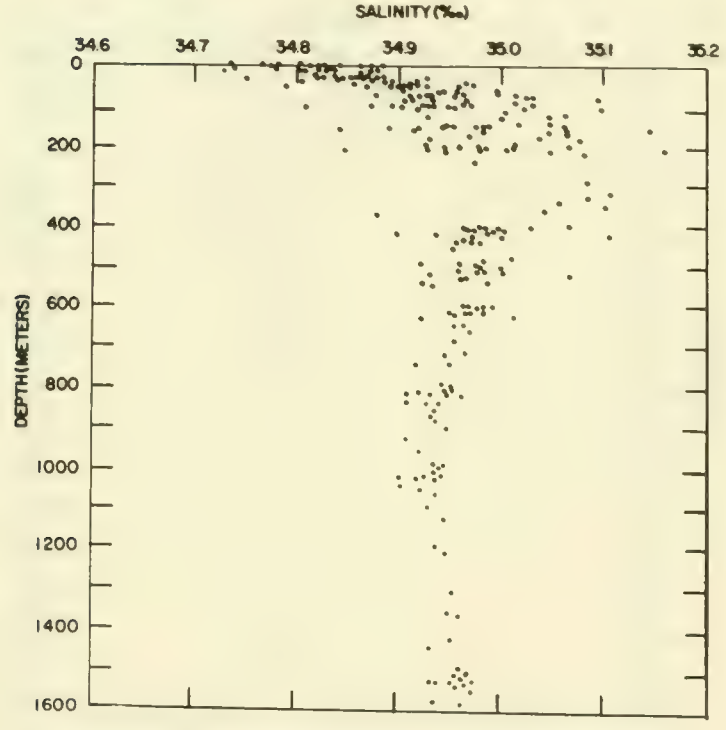

FIGURE 23. Vertical distributions of salinity versus depth at oceanographic stations taken by USCGC MENDOTA at Ocean Station CHARLIE, 9 July to 1 August 1967.

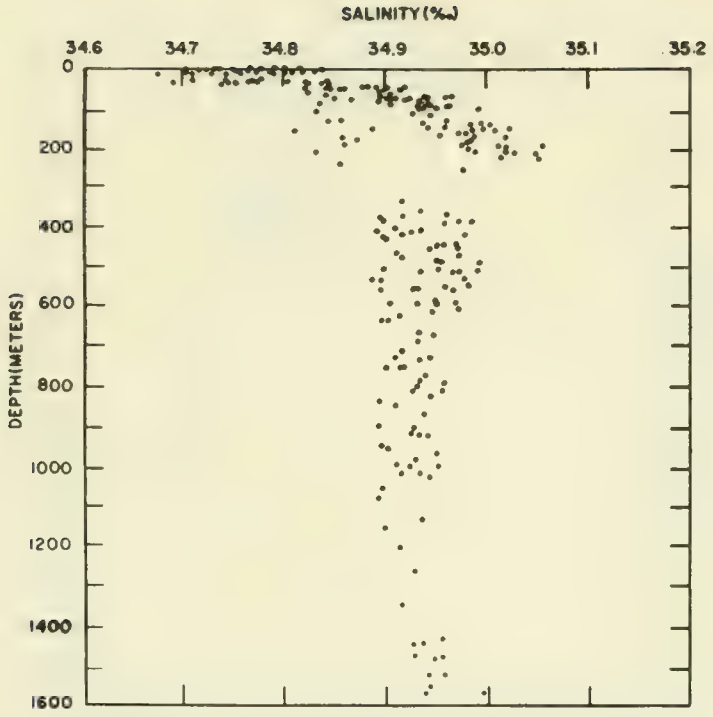

FIGURE 24. Vertical distributions of salinity versus depth at oceanographic stations taken by USCGC CHINCOTEAGUE at Ocean Station CHARLIE, 2–24 August 1967.

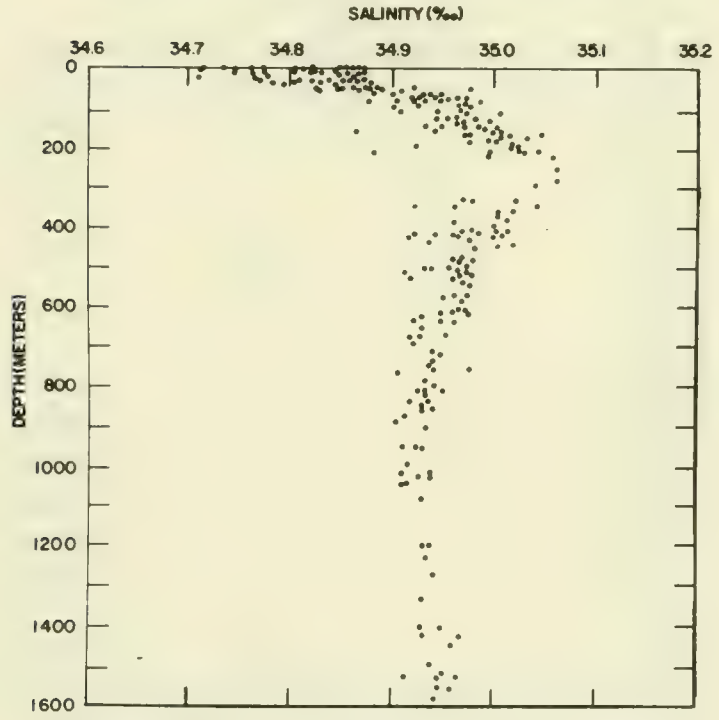

FIGURE 25. Vertical distributions of salinity versus depth at oceanographic stations taken by USCGC BIBB at Ocean Station CHARLIE, 26 August to 16 September 1967.

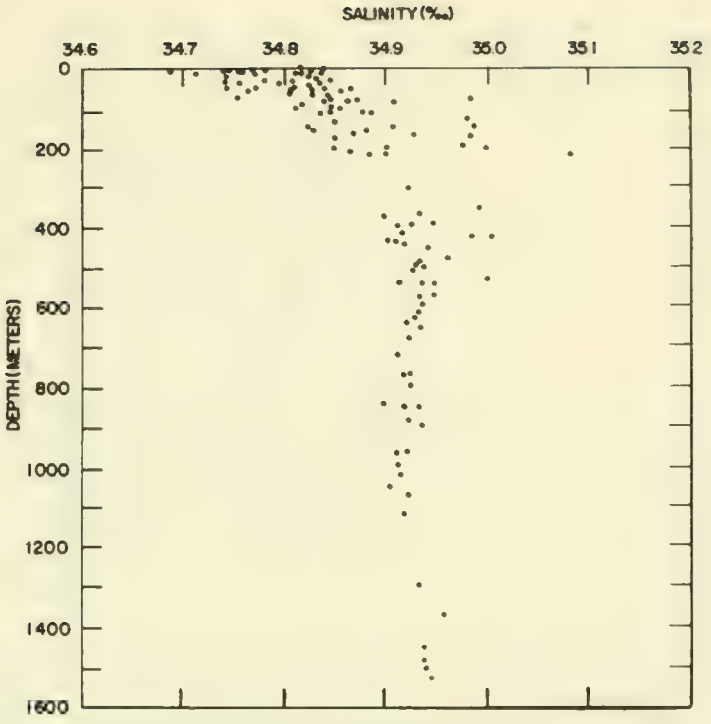

FIGURE 26. Vertical distributions of salinity versus depth at oceanographic stations taken by USCGC OWASCO at Ocean Station CHARLIE, 15 October to 2 November 1967.

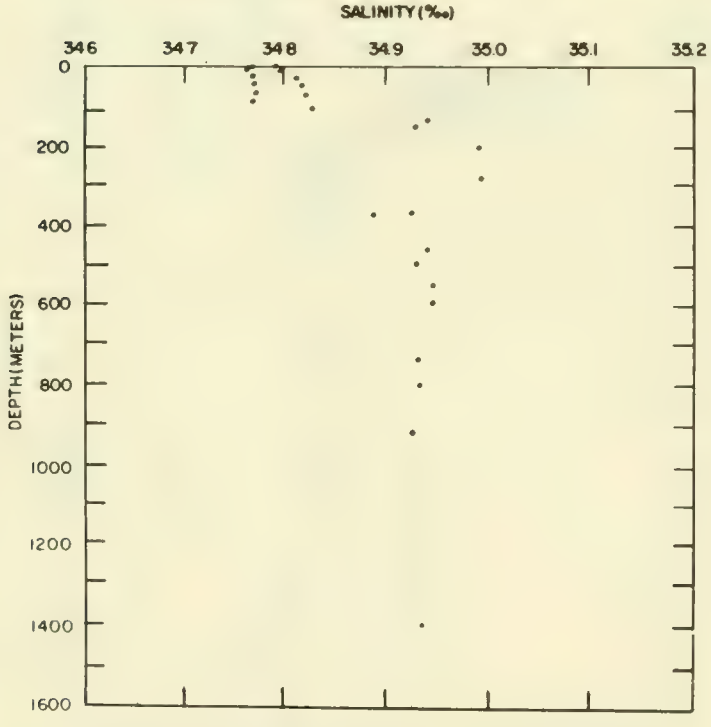

FIGURE 27. Vertical distributions of salinity versus depth at oceanographic stations taken by USCGC SEBAGO at Ocean Station CHARLIE, 28–30 November 1967.

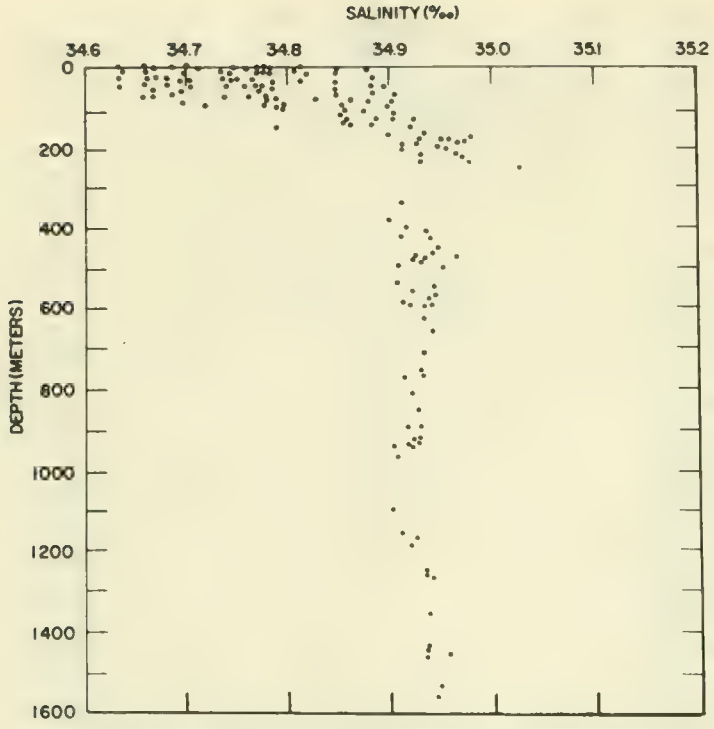

FIGURE 28. Vertical distributions of salinity versus depth at oceanographic stations taken by USCGC ESCANABA at Ocean Station CHARLIE, 11–31 January 1968.

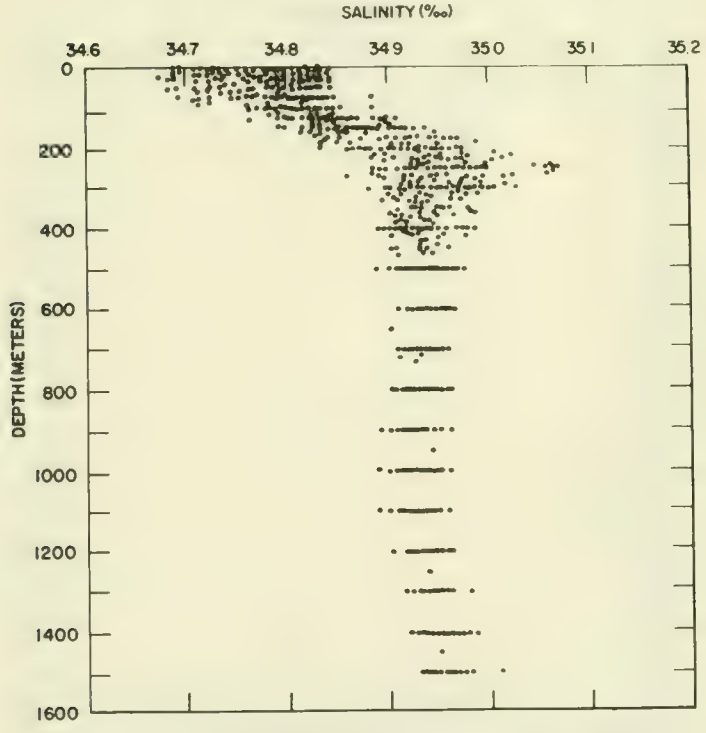

FIGURE 29. Vertical distributions of salinity versus depth at oceanographic stations taken by USCGC HAMILTON, with a Salinity-Temperature-Depth (STD) sensor at Ocean Station CHARLIE, 10 April to 1 May 1968.

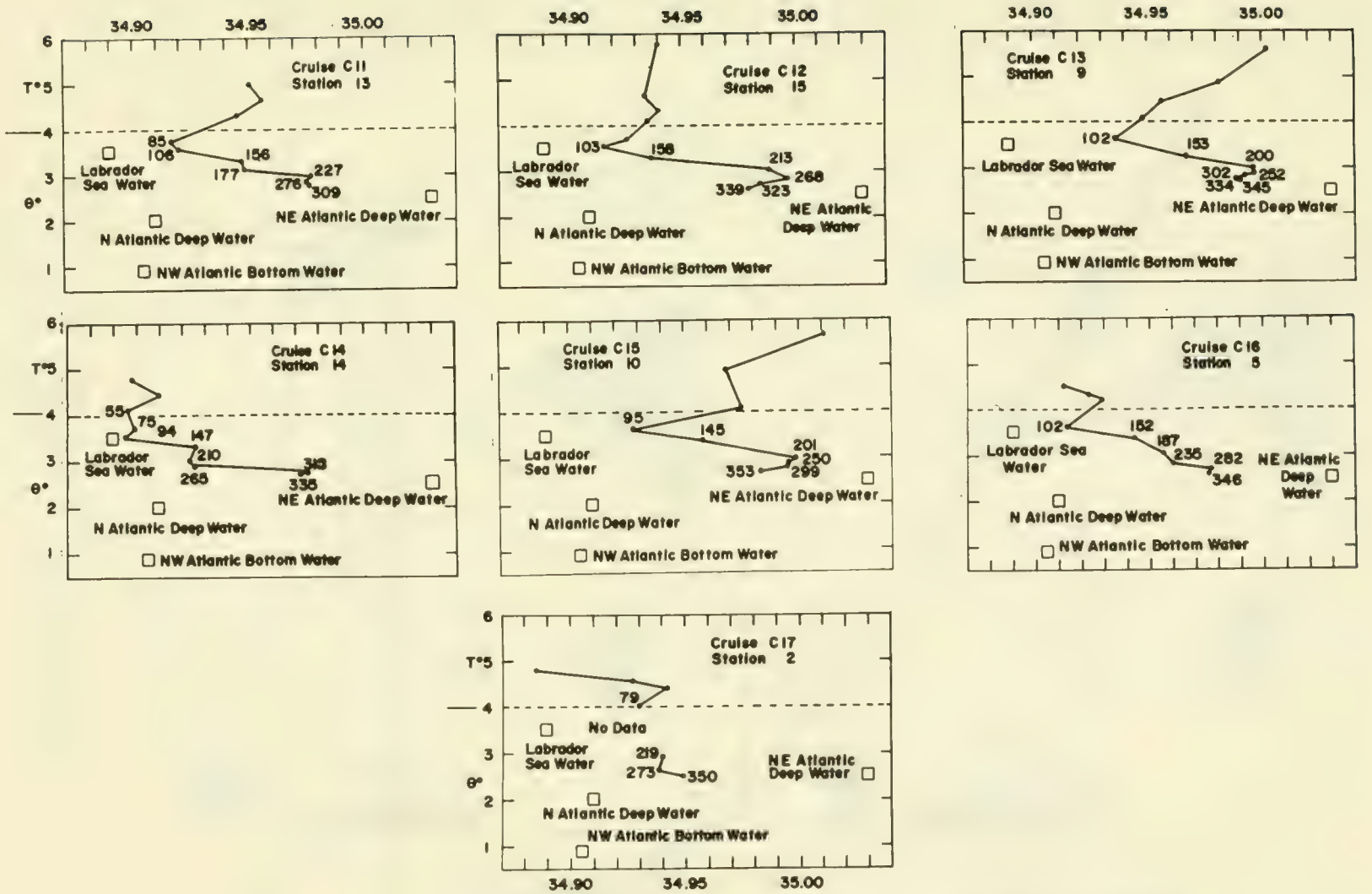

FIGURE 30. Temperature versus salinity diagrams for all deep stations greater than 1500 meters. For temperatures below 4° C potential temperatures have been used. Depth given in decameters.

NAD—North Atlantic Deep Water

LS—Labrador Sea Water

NWAB—Northwest Atlantic Bottom Water

NEAD—Northeast Atlantic Deep Water

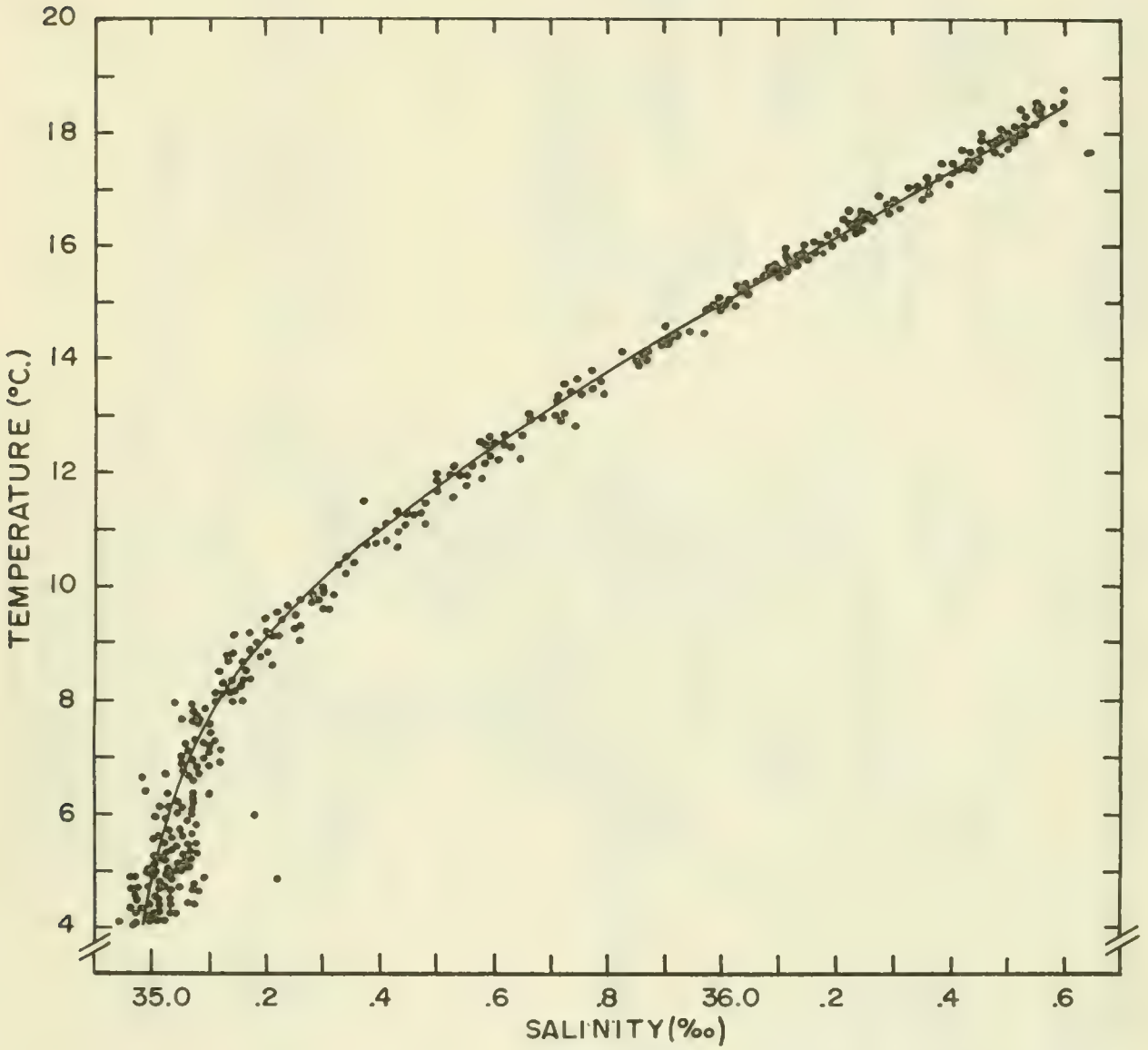

FIGURE 31. Iselin's 1936 temperature versus salinity correlation at all "Atlantis" stations within the Sargasso Sea.

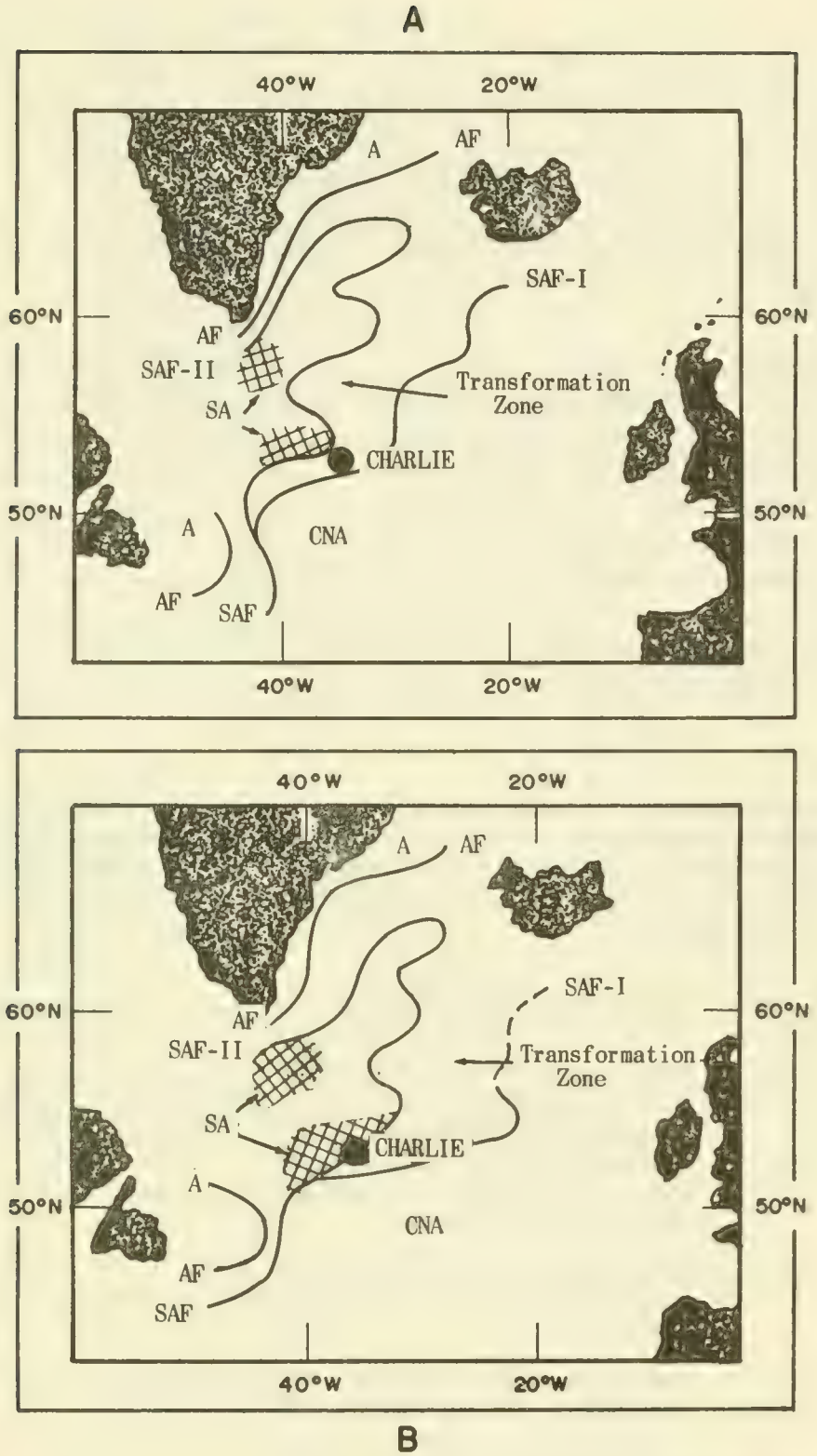

FIGURE 32. Bubnov's 1968 scheme of the subarctic frontal zone on the surface of the ocean in the spring (A) and in the autumn (B) of 1958.

Water masses: A—Arctic; SA—Subarctic; CNA—Central North Atlantic
Fronts: AF—Arctic; SAF-I—Primary Subarctic; SAF-II—Secondary Subarctic

Formation centers of the Subarctic Intermediate Waters are cross-hatched.

APPENDIX A
OCEANOGRAPHIC DATA

Cruises Listed

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I.	USCGC INGHAM, April 1967	22
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Codes Utilized

A complete description of the codes utilized in the tabulation of oceanographic station data can be found in National Oceanographic Data Center publication M–2, Processing Physical and Chemical Data from Oceanographic Stations. (Rev. August 1964, supplement issued May 1966.)

To facilitate use of the oceanographic station data listing, entry headings which are not self-explanatory are described below.

Depth to Bottom	Uncorrected sounding in meters.
Max. Depth of Samples	Depth of deepest sample to nearest multiple of one hundred meters.
Wave observations	
DIR.	Rounded to nearest multiple of 10 degrees.
HGT.	Increments of ½ m. Sum of 5 meters plus increments of ½ m if 50 is added to direction.
PER.	If numerals 2 through 9 are entered, periods in seconds is twice the numeric entry or 2X (numeric entry) +1. For other entries see WMO Code 3155.
SEA.	Sea state according to WMO Code 3700.
Weather Code	If preceded by X, weather according to WMO Code 4501. If a two-digit entry, weather according to WMO Code 4677.
Cloud Code	
Type	Cloud type according to WMO Code 0500.
Amount	Cloud amount in eighths. Entry of the numeral 9 indicates cloud amount could not be estimated.
Water	
Color Code	Color according to Forel-Ule scale.
Trans.	Transparency in whole meters as determined by Secchi disc.
Wind	
Dir.	Rounded to nearest multiple of 10 degrees.
Speed	Letter S indicates wind speed in knots.
Barometer	Barometric pressure given in tens, units, and tenths of millibars.
Air Temp. ° C	Air temperature to tenths of a degree Celsius.

Vis. Code	Visibility according to WMO Code 4300.
No. obs. depths	Number of observed levels associated with the station.
Messenger time	Entered in hours and tenths of an hour GMT. For Nansen casts, indicates time of release of messenger applicable to the observational level. For STD casts, indicates the starting time of lowering the sensor.
Card type	OBS designates observed levels. STD indicates the values at this standard level were interpolated by a modified 3-point LaGrange formula.
Depth (m)	Depth to nearest meter. A postscript T indicates depth was obtained thermometrically; Z indicates uncorrected "wire out" depth. Postscript Q indicates value was marked doubtful by originator; P indicates value was considered doubtful by NODC. Postscripts P and Q retain this meaning throughout the following entries.
T ° C	Temperature to hundredths of a degree Celsius.
S °/₀₀	Salinity in parts-per-thousand.
SIGMA-T	Entered to hundredths.
Specific-volume	Multiply entry by 10^{-7} to obtain specific-volume anomaly in cubic centimeters per gram.
$\Sigma\Delta$D Dyn. M$\times 10^3$	Multiply entry by 10^{-3} to obtain anomaly of dynamic depth in dynamic meters referenced to the seasurface.
Sound Velocity	Sound velocity according to Wilson's formula entered to tenths of a meter per second.

TABLE I.—Observed and interpolated oceanographic data from stations taken by USCGC INGHAM, at Ocean Station CHARLIE, 12 April—30 April 1967, prepared from NODC Listing No. 31-886.

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPE. CHECK	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR. 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'G	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT.	WAVE OBSERVATIONS: PER.	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYP.	CLOUD CODES: AMT.	NODC STATION NUMBER
31	886	IN	5245 N	03545 W		184	25	04	12	123	1967	C11	001	2850	19	17	3	4		X4	7	8	0001

WATER: COLOR CODE	WATER: TRANSP. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		17	505	081	086	086		13	

MESSENGER TIME (GMT) HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10⁷	Σ Δ D DYN. M. × 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₃-N µg-at/l	NO₂-N µg-at/l	SiO₄-Si µg-at/l	pH	CODE
		STD	0000	0626	3485	2742	0006644	0000	14759								
123		OBS	0000	0626	34854	2742			14759								
		STD	0010	0620	3487	2744	0006496	0007	14759								
123		OBS	0013	0619	34869	2745			14759								
		STD	0020	0618	3488	2746	0006380	0013	14760								
		STD	0030	0617	3488	2746	0006382	0019	14761								
123		OBS	0040	0616	34890	2747			14762								
		STD	0050	0615	3490	2747	0006274	0032	14764								
123		OBS	0062	0613	34900	2748			14765								
		STD	0075	0610	3490	2748	0006196	0048	14766								
123		OBS	0093	0608	34905	2749			14768								
		STD	0100	0608	3491	2749	0006177	0063	14769								
123		OBS	0124	0607	34908	2749			14773								
		STD	0125	0607	3491	2749	0006171	0079	14773								
		STD	0150	0601	3491	2750	0006132	0094	14775								
123		OBS	0185	0595	34919	2752			14778								
		STD	0200	0595	3492	2752	0006053	0124	14781								
123		OBS	T0247	0590	34927	2753			14786								
		STD	0250	0588	3493	2753	0005982	0154	14786								
		STD	0300	0558	3493	2757	0005624	0183	14782								
		STD	0400	0504	3495	2765	0005003	0237	14777								
123		OBS	T0494	0462	34958	2771			14775								
		STD	0500	0459	3496	2771	0004503	0284	14775								
		STD	0600	0423	3494	2773	0004323	0328	14776								
123		OBS	0621	0418	34935	2774			14778								
		STD	0700	0406	3493	2775	0004292	0371	14786								
123		OBS	T0748	0400	34925	2775			14791								
		STD	0800	0394	3493	2775	0004284	0414	14797								
		STD	0900	0383	3492	2776	0004254	0457	14809								
		STD	1000	0374	3492	2777	0004243	0499	14822								
		STD	1100	0365	3492	2778	0004229	0542	14835								
		STD	1200	0358	3492	2779	0004228	0584	14849								
123		OBS	T1254	0354	34921	2779			14856								
		STD	1300	0351													
		STD	1400	0346													
		STD	1500	0341													
		STD	1750	0334													
123		OBS	T1866	0333													

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPE. CHECK	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR. 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'G	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT.	WAVE OBSERVATIONS: PER.	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYP.	CLOUD CODES: AMT.	NODC STATION NUMBER
31	886	IN	5259 N	03532 W		184	25	04	14	125	1967	C11	002	2743	14	34	4	4		X4	5	8	0002

WATER: COLOR CODE	WATER: TRANSP. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		13	S12	173	075	072	5	14	

MESSENGER TIME (GMT) HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10⁷	Σ Δ D DYN. M. × 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₃-N µg-at/l	NO₂-N µg-at/l	SiO₄-Si µg-at/l	pH	CODE
		STD	0000	0658	3487	2739	0006943	0000	14772								
125		OBS	0000	0658	34868	2739			14772								
125		OBS	0009	0625	34851	2742			14760								
		STD	0010	0625	3485	2742	0006669	0007	14761								
		STD	0020	0621	3486	2743	0006596	0013	14761								
125		OBS	0027	06340	34859	27420											
		STD	0030	0618	3486	2744	0006544	0020	14761								
125		OBS	0043	0615	34884	2746			14762								
		STD	0050	0613	3489	2747	0006287	0033	14763								
125		OBS	0064	0611	34891	2747			14764								
		STD	0075	0611	3490	2748	0006223	0048	14766								
125		OBS	0085	0610	34904	2748			14768								
		STD	0100	0608	3491	2749	0006148	0064	14769								
		STD	0125	0603	3491	2750	0006121	0079	14771								
125		OBS	0128	0602	34914	2750			14772								
		STD	0150	0595	3491	2751	0006057	0094	14772								
125		OBS	T0172	0589	34900	2751			14773								
		STD	0200	0583	3491	2752	0005976	0125	14776								
		STD	0250	0572	3491	2754	0005909	0154	14779								
		STD	0300	0561	3492	2756	0005768	0183	14783								
125		OBS	T0342	0552	34924	2757			14787								
		STD	0400	0502	3493	2764	0005128	0238	14776								
125		OBS	0430	0485	34927	2766			14774								
		STD	0500	0474	3493	2767	0004881	0288	14781								
125		OBS	T0518	0471	34935	2768			14783								
		STD	0600	0451	3493	2770	0004717	0336	14788								
125		OBS	0655	0438	34923	2771			14792								
		STD	0700	0426	3492	2772	0004600	0383	14794								
		STD	0800	0401	3491	2774	0004477	0428	14800								
		STD	0900	0380	3491	2775	0004352	0472	14808								
125		OBS	T0900	0380	34906	2775			14808								
		STD	1000	0363	3491	2777	0004209	0515	14817								
		STD	1100	0350	3492	2779	0004102	0556	14829								
		STD	1200	0340	3492	2780	0004033	0597	14841								
		STD	1300	0335	3492	2781	0004014	0637	14856								
		STD	1400	0333	3493	2782	0004036	0678	14872								
125		OBS	T1420	0333	34929	2782			14876								

TABLE I.—Continued

CRUISE NUMBER	SHIP CODE	LATITUDE	LONGITUDE	MARSDEN SQUARE	STATION TIME (G.m.t.)	YEAR	OBSERVATORY'S CRUISE NUMBER	OBSERVATORY'S STATION NUMBER	DEPTH TO BOTTOM	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER.	WEATHER CODE	WIND CLOUD TYPE	WIND CLOUD AMT	NODC STATION NUMBER
310986	IN	5245 N	03523 W	184 25	04 15 180	1967	C11	003	3475	18	5	5	X6	5	8	0003

°DT WATER COLOR	°S.U. °C TRANS. (m.)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mb.)	AIR TEMPERATURE °C DRY BULB	AIR TEMPERATURE °C WET BULB	VIS. CODE	NUMBER SEA LEVELS	SPECIAL OBSERVATIONS
		18	S06	193	089	033	4	13	

CAST NO.	TIME DURATION OF RECORDED TIME (G.m.t.)	CARD TYPE	DEPTH (m.)	T°C.	σ°...	SIGMA-T	SPECIFIC VOLUME ANOMALY × 10⁵	1SO DYN. EL. × 10⁵	COMPUTED SOUND VELOCITY m./sec.	O_2 ml/l	*AMBIENT LIGHT PO_2 – P	*AMBIENT LIGHT TOTAL – P	*AMBIENT LIGHT NO_2 – N	*AMBIENT LIGHT NO_3 – N	*MEASURED SOUND VELOCITY Δ O_2 – N	*MEASURED SOUND VELOCITY pH
		STD	0000	0652												
180		OBS	0000	0652												
		STD	0010	0650												
180		OBS	0011	0650												
		STD	0020	0647												
		STD	0030	0642												
180		OBS	0034	0640												
		STD	0050	0629												
180		OBS	0054	0627												
		STD	0075	0621												
180		OBS	0082	0618												
		STD	0100	0605												
180		OBS	0108	0600												
		STD	0125	0591												
		STD	0150	0582												
180		OBS	0162	0579												
		STD	0200	0583												
180		OBS	T0220	0583												
		STD	0250	0569												
		STD	0300	0547												
		STD	0400	0508												
180		OBS	T0432	0497												
		STD	0500	0478												
180		OBS	0539	0466												
		STD	0600	0443												
180		OBS	0643	0429												
		STD	0700	0411												
		STD	0800	0387												
180		OBS	0853	0378												
		STD	0900	0375												
		STD	1000	0369												
180		OBS	T1059	0366												

CRUISE NUMBER	SHIP CODE	LATITUDE	LONGITUDE	MARSDEN SQUARE	STATION TIME (G.m.t.)	YEAR	OBSERVATORY'S CRUISE NUMBER	OBSERVATORY'S STATION NUMBER	DEPTH TO BOTTOM	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER.	WEATHER CODE	WIND CLOUD TYPE	WIND CLOUD AMT	NODC STATION NUMBER
310986	IN	52495N	03537 W	184 25	04 16 125	1967	C11	004	3350	21	3	3	X4	7	8	0004

°DT WATER COLOR	°S.U. °C TRANS. (m.)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mb.)	AIR TEMPERATURE °C DRY BULB	AIR TEMPERATURE °C WET BULB	VIS. CODE	NUMBER SEA LEVELS	SPECIAL OBSERVATIONS
		21	S12	234	072	067	5	13	

CAST NO.	TIME DURATION OF RECORDED TIME (G.m.t.)	CARD TYPE	DEPTH (m.)	T°C.	σ°...	SIGMA-T	SPECIFIC VOLUME ANOMALY × 10⁵	1SO DYN. EL. × 10⁵	COMPUTED SOUND VELOCITY m./sec.	O_2 ml/l	*AMBIENT LIGHT PO_2 – P	*AMBIENT LIGHT TOTAL – P	*AMBIENT LIGHT NO_2 – N	*AMBIENT LIGHT NO_3 – N	*MEASURED SOUND VELOCITY Δ O_2 – N	*MEASURED SOUND VELOCITY pH
		STD	0000	0645												
125		OBS	0000	0645												
		STD	0010	0643												
125		OBS	0010	0643												
		STD	0020	0637												
		STD	0030	0633												
125		OBS	0033	0632												
		STD	0050	0631												
125		OBS	0051	0631												
		STD	0075	0615												
125		OBS	0077	0614												
		STD	0100	0612												
125		OBS	0101	0612												
		STD	0125	0605												
		STD	0150	0599												
125		OBS	0152	0599												
		STD	0200	0597												
125		OBS	T0204	0597												
		STD	0250	0567												
		STD	0300	0539												
		STD	0400	0498												
125		OBS	T0408	0495												
		STD	0500	0475												
125		OBS	0511	0473												
		STD	0600	0452												
125		OBS	T0615	0449												
		STD	0700	0438												
		STD	0800	0420												
125		OBS	0817	0416												
		STD	0900	0395												
		STD	1000	0364												
125		OBS	T1021	0357												

TABLE I.—Continued

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPE CHECK	MARSDEN SQUARE	STATION TIME (GMT): MO	DAY	HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS: DIR.	HGT.	PER.	SEA	WEATHER CODE	CLOUD CODES: TYPE	AMT.	NODC STATION NUMBER
31	886	IN	5248 N	03526 W		184	25	04	17	121	1967	C11	005	3400	15	19	3	4		X4	5	8	0005

WATER: COLOR CODE	TRANS. (m)	WIND: DIR.	SPEED OR FORCE	BARO. METER (mbs)	AIR TEMP. °C: DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		19	S05	193	083	083	5	14	

MESSENGER TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta D$ DYN. M. $\Sigma 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_4-Si µg-at/l	pH	CODE
		STD	0000	0648	34813	2736	0007226	0000	14768								
	121	OBS	0000	0648	34813	2736			14768								
		STD	0010	0648	3481	2736	0007286	0007	14769								
	121	OBS	0010	0648	34807	2736			14769								
		STD	0020	0643	3482	2738	0007141	0014	14769								
		STD	0030	0637	3484	2740	0006931	0022	14768								
	121	OBS	0033	0634	34844	2741			14768								
		STD	0050	0615	3487	2745	0006461	0035	14763								
	121	OBS	0053	0612	34878	2746			14763								
		STD	0075	0603	3490	2749	0006162	0051	14763								
	121	OBS	0080	0602	34899	2749			14763								
		STD	0100	0604	3490	2749	0006176	0066	14768								
	121	OBS	0106	0605	34904	2749			14769								
		STD	0125	0601	3491	2750	0006096	0081	14771								
		STD	0150	0597	3491	2751	0006082	0097	14773								
	121	OBS	0159	0595	34913	2751			14774								
		STD	0200	0589	3491	2752	0006052	0127	14778								
	121	OBS	0212	0587	34909	2752			14779								
		STD	0250	0569	3492	2755	0005798	0157	14778								
		STD	0300	0547	3493	2758	0005519	0185	14778								
		STD	0400	0506	3494	2764	0005072	0238	14778								
	121	OBS	T0416	0500	34946	2765			14778								
		STD	0500	0469	3495	2769	0004688	0287	14779								
	121	OBS	0524	0408Q	34949	2776Q											
		STD	0600	0437	3495	2773	0004404	0332	14782								
	121	OBS	T0624	0430	34952	2774			14784								
		STD	0700	0410	3494	2775	0004286	0376	14788								
		STD	0800	0390	3492	2775	0004297	0418	14796								
	121	OBS	0817	0387	34913	2775			14797								
		STD	0900	0378	3492	2776	0004254	0461	14807								
		STD	1000	0368	3492	2778	0004202	0504	14820								
	121	OBS	T1015	0367	34919	2778			14822								
		STD	1100	0360	3492	2779	0004184	0545	14833								
		STD	1200	0353	3493	2780	0004108	0587	14847								
		STD	1300	0348	3493	2780	0004128	0628	14862								
		STD	1400	0344	3494	2782	0004084	0669	14877								
		STD	1500	0342	3494	2782	0004137	0710	14893								
	121	OBS	T1548	0341	34947	2783			14901								

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPE CHECK	MARSDEN SQUARE	STATION TIME (GMT): MO	DAY	HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS: DIR.	HGT.	PER.	SEA	WEATHER CODE	CLOUD CODES: TYPE	AMT.	NODC STATION NUMBER
31	886	IN	5257 N	03531 W		184	25	04	18	130	1967	C11	006	2150	15	15	3	5		X8	5	8	0006

WATER: COLOR CODE	TRANS. (m)	WIND: DIR.	SPEED OR FORCE	BARO. METER (mbs)	AIR TEMP. °C: DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		21	S10	166	083	078	7	14	

MESSENGER TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta D$ DYN. M. $\Sigma 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_4-Si µg-at/l	pH	CODE
		STD	0000	0661	3484	2737	0007175	0000	14773								
	130	OBS	0000	0661	34842	2737			14773								
		STD	0010	0660	3484	2737	0007163	0007	14774								
	130	OBS	0010	0660	34844	2737			14774								
		STD	0020	0656	3485	2738	0007082	0014	14775								
		STD	0030	0650	3485	2739	0007021	0021	14774								
	130	OBS	0032	0649	34853	2739			14774								
	130	OBS	0049	0637	34864	2742			14772								
		STD	0050	0637	3486	2742	0006782	0035	14772								
	130	OBS	0074	0634	34873	2743			14775								
		STD	0075	0634	3487	2743	0006714	0052	14775								
	130	OBS	0098	0623	34878	2745			14775								
		STD	0100	0622	3488	2745	0006547	0069	14775								
		STD	0125	0613	3488	2746	0006470	0085	14775								
	130	OBS	0147	0606	34883	2747			14776								
		STD	0150	0605	3488	2747	0006383	0101	14776								
	130	OBS	0196	0594	34890	2749			14779								
		STD	0200	0592	3489	2750	0006238	0132	14779								
		STD	0250	0570	3489	2753	0006011	0163	14778								
		STD	0300	0548	3490	2756	0005791	0193	14778								
	130	OBS	T0395	0506	34900	2761			14776								
		STD	0400	0503	3490	2761	0005334	0248	14776								
	130	OBS	0494	0461	34900	2766			14774								
		STD	0500	0459	3490	2766	0004927	0300	14774								
	130	OBS	T0595	0425	34906	2771			14776								
		STD	0600	0424	3491	2771	0004550	0347	14777								
		STD	0700	0403	3491	2773	0004406	0392	14784								
	130	OBS	0792	0388	34916	2775			14793								
		STD	0800	0387	3492	2776	0004240	0435	14794								
		STD	0900	0377	3493	2778	0004139	0477	14807								
	130	OBS	T0978	0370	34934	2779			14817								
		STD	1000	0368	3493	2779	0004091	0518	14820								
		STD	1100	0360	3494	2780	0004066	0559	14833								
		STD	1200	0353	3494	2781	0004057	0599	14847								
		STD	1300	0347	3494	2781	0004057	0640	14861								
		STD	1400	0343	3494	2782	0004079	0681	14877								
		STD	1500	0339	3494	2782	0004092	0721	14892								
	130	OBS	T1527	0338	34941	2782			14896								

REFERENCE: CTRY CODE	REFERENCE: NO.	SHIP CODE	LATITUDE °	LATITUDE 1/10	LONGITUDE °	LONGITUDE 1/10	DUPLICATE	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT		NODC STATION NUMBER
31	884	IN	5225	N	03508	W		184	25	04	19	195	1967	C11	007	2400	18	00	0	0		X8	5	7		0007

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		08	S15	247	086	067	8	14	

PASSENGER Time of HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^5	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_4-Si µg-at/l	pH	+100
		STD	0000	0694	34821	2731	0007738	0000	14786								
195		OBS	0000	0694	34824	2731			14786								
		STD	0010	0686	3483	2732	0007641	0008	14784								
195		OBS	0012	0684	34825	2732			14784								
		STD	0020	0673	3483	2734	0007450	0015	14781								
		STD	0030	0661	3484	2737	0007236	0023	14778								
195		OBS	0037	0653	34844	2738			14776								
		STD	0050	0642	3485	2740	0006949	0037	14774								
195		OBS	0059	0635	34854	2741			14773								
		STD	0075	0622	3489	2746	0006436	0053	14771								
195		OBS	0087	0614	34897	2747			14769								
		STD	0100	0608	3489	2748	0006297	0069	14769								
195		OBS	0116	0602	34882	2748			14769								
		STD	0125	0600	3488	2748	0006285	0085	14770								
		STD	0150	0594	3488	2749	0006238	0101	14772								
195		OBS	0174	0588	34886	2750			14773								
		STD	0200	0582	3489	2751	0006144	0132	14775								
195		OBS	T0232	0573	34885	2752			14777								
		STD	0250	0564	3489	2753	0005960	0162	14776								
		STD	0300	0541	3491	2758	0005594	0191	14775								
		STD	0400	0500	3493	2764	0005075	0244	14775								
195		OBS	T0474	0474	34935	2768			14777								
		STD	0500	0466	3494	2768	0004749	0293	14778								
195		OBS	0584	0443	34935	2771			14782								
		STD	0600	0438	3494	2772	0004527	0340	14783								
		STD	0700	0414	3494	2774	0004348	0384	14789								
195		OBS	T0700	0414	34935	2774			14789								
		STD	0800	0400	3494	2776	0004265	0427	14800								
		STD	0900	0387	3494	2777	0004190	0469	14811								
195		OBS	0950	0381	34940	2778			14817								
		STD	1000	0376	3494	2778	0004151	0511	14823								
		STD	1100	0367	3494	2779	0004153	0553	14836								
		STD	1200	0357	3493	2780	0004144	0594	14849								
195		OBS	T1202	0357	34932	2780			14849								
		STD	1300	0349	3494	2781	0004089	0635	14862								
		STD	1400	0342	3494	2782	0004037	0676	14876								
		STD	1500	0336	3495	2783	0004003	0716	14891								
		STD	1750	0326	3496	2785	0003960	0816	14929								
195		OBS	T1848	0323	34967	2786			14944								

REFERENCE: CTRY CODE	REFERENCE: NO.	SHIP CODE	LATITUDE °	LATITUDE 1/10	LONGITUDE °	LONGITUDE 1/10	DUPLICATE	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT		NODC STATION NUMBER
31	886	IN	5243	N	03538	W		184	25	04	20	124	1967	C11	008	2743	14	07	2	4		X2	5	8		0008

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		12	S14	190	067	061	6	14	

PASSENGER Time of HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^5	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_4-Si µg-at/l	pH	+100
		STD	0000	0638	3478	2735	0007339	0000	14763								
124		OBS	0000	0638	34781	2735			14763								
124		OBS	0009	0637	34805	2737			14765								
		STD	0010	0637	3480	2737	0007199	0007	14765								
		STD	0020	0632	3480	2737	0007152	0014	14764								
124		OBS	0028	0626	34794	2738			14763								
		STD	0030	0624	3479	2738	0007111	0022	14763								
124		OBS	0044	0607	34797	2740			14758								
		STD	0050	0600	3481	2742	0006724	0035	14757								
124		OBS	0065	0581	34822	2746			14752								
		STD	0075	0563	3482	2748	0006222	0052	14746								
124		OBS	0087	0547	34821	2750			14741								
		STD	0100	0544	3483	2751	0005970	0067	14742								
		STD	0125	0536	3484	2753	0005834	0082	14743								
124		OBS	0129	0534	34843	2753			14743								
		STD	0150	0524	3484	2754	0005710	0096	14743								
124		OBS	T0173	0513	34840	2755			14742								
		STD	0200	0506	3486	2758	0005428	0124	14744								
		STD	0250	0491	3489	2762	0005090	0150	14746								
		STD	0300	0475	3490	2765	0004890	0175	14748								
124		OBS	T0341	0461	34914	2767			14749								
		STD	0400	0436	3492	2770	0004445	0222	14748								
124		OBS	0430	0427	34915	2771			14750								
		STD	0500	0421	3492	2772	0004349	0266	14759								
124		OBS	T0520	0419	34920	2772			14761								
		STD	0600	0401	3492	2774	0004213	0309	14767								
124		OBS	0697	0385	34913	2775			14776								
		STD	0700	0385	3491	2775	0004200	0351	14777								
		STD	0800	0376	3491	2776	0004187	0393	14790								
124		OBS	T0872	0370	34906	2776			14799								
		STD	0900	0368	3491	2777	0004204	0435	14803								
		STD	1000	0362	3491	2777	0004205	0477	14817								
		STD	1100	0357	3491	2778	0004214	0519	14832								
		STD	1200	0354	3491	2779	0004238	0561	14847								
		STD	1300	0352	3492	2779	0004280	0604	14863								
124		OBS	T1385	0351	34918	2779			14877								

TABLE I.—Continued

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	QUAD ROCK	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT	NODC STATION NUMBER
31	886	IN	5251 N	03530 W		184	25	04	21	123	1967	C11	009	3000	15	19	3	5		X1	7	3	0009

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		15	S05	108	089	089	7	14	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^8	$\Sigma\Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_4-Si µg-at/l	pH	SCC
		STD	0000	0665	34813	2734	0007435	0000	14774								
123		OBS	0000	0665	34814	2734			14774								
		STD	0010	0662	34822	2735	0007353	0007	14775								
123		OBS	0010	0662	34822	2735			14775								
		STD	0020	0658	34833	2736	0007257	0015	14775								
		STD	0030	0650	34845	2739	0007043	0022	14774								
123		OBS	0030	0650	34847	2739			14774								
		STD	0050	0626	34888	2745	0006501	0035	14768								
123		OBS	0050	0626	34883	2745			14768								
123		OBS	0074	0618	34906	2748			14769								
		STD	0075	0618	34911	2748	0006236	0051	14769								
123		OBS	0099	0612	34914	2749			14771								
		STD	0100	0612	34911	2749	0006168	0067	14771								
		STD	0125	0610	34922	2750	0006104	0082	14774								
123		OBS	0149	0608	34934	2751			14778								
		STD	0150	0608	34933	2751	0006040	0097	14778								
123		OBS	T0199	0604	34934	2752			14784								
		STD	0200	0603	34933	2752	0006049	0128	14784								
		STD	0250	0578	34944	2755	0005775	0157	14782								
		STD	0300	0553	34944	2759	0005495	0185	14780								
123		OBS	0397	0505	34951	2765			14777								
		STD	0400	0503	34955	2765	0004962	0238	14777								
123		OBS	0496	0458	34942	2770			14774								
		STD	0500	0456	34944	2770	0004594	0285	14774								
123		OBS	T0596	0422	34934	2773			14775								
		STD	0600	0421	34933	2773	0004367	0330	14776								
		STD	0700	0401	34933	2775	0004234	0373	14784								
123		OBS	0793	0386	34922	2776			14793								
		STD	0800	0385	34932	2776	0004202	0415	14794								
		STD	0900	0377	34932	2777	0004206	0457	14807								
123		OBS	T0989	0370	34920	2778			14819								
		STD	1000	0369	34932	2778	0004199	0499	14820								
		STD	1100	0362	34933	2779	0004156	0541	14834								
		STD	1200	0356	34933	2780	0004122	0583	14848								
		STD	1300	0350	34934	2781	0004086	0624	14863								
		STD	1400	0345	34935	2782	0004053	0664	14877								
		STD	1500	0341	34935	2783	0004037	0705	14893								
123		OBS	T1502	0341	34952	2783			14893								

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	QUAD ROCK	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT	NODC STATION NUMBER
31	886	IN	5254 N	03526 W		184	25	04	22	124	1967	C11	010	2400	14	19	3	5		X8	5	8	0010

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		17	S08	970	094	094	6	14	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^8	$\Sigma\Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_4-Si µg-at/l	pH	SCC
		STD	0000	0662	34863	2738	0007039	0000	14774								
124		OBS	0000	0662	34862	2738			14774								
124		OBS	0009	0660	34860	2738			14774								
		STD	0010	0659	34863	2739	0007031	0007	14774								
		STD	0020	0650	34863	2740	0006924	0014	14772								
124		OBS	0027	0643	34861	2741			14771								
		STD	0030	0638	34873	2742	0006719	0021	14769								
124		OBS	0043	0623	34886	2745			14766								
		STD	0050	0619	34893	2746	0006361	0034	14765								
124		OBS	0065	0614	34900	2748			14766								
		STD	0075	0613	34913	2749	0006174	0050	14767								
124		OBS	0091	0612	34915	2749			14769								
		STD	0100	0610	34923	2750	0006113	0065	14770								
		STD	0125	0608	34933	2750	0006072	0080	14774								
124		OBS	0135	0607	34928	2751			14775								
		STD	0150	0607	34933	2751	0006061	0095	14778								
124		OBS	T0180	0608	34937	2751			14783								
		STD	0200	0600	34934	2752	0005981	0125	14783								
		STD	0250	0581	34944	2755	0005798	0155	14784								
		STD	0300	0563	34944	2757	0005626	0183	14785								
124		OBS	T0346	0547	34944	2760			14786								
		STD	0400	0529	34946	2763	0005202	0238	14787								
124		OBS	0435	0517	34968	2765			14788								
		STD	0500	0490	34968	2769	0004700	0287	14788								
124		OBS	T0522	0482	34987	2771			14789								
		STD	0600	0457	34968	2773	0004417	0333	14791								
124		OBS	0696	0429	34961	2775			14795								
		STD	0700	0428	34966	2775	0004327	0376	14795								
		STD	0800	0402	34964	2776	0004266	0419	14801								
124		OBS	T0867	0387	34929	2776			14806								
		STD	0900	0384	34963	2777	0004223	0462	14810								
		STD	1000	0376	34963	2778	0004197	0504	14823								
		STD	1100	0367	34963	2779	0004166	0546	14836								
		STD	1200	0359	34964	2780	0004132	0587	14849								
		STD	1300	0350	34964	2781	0004095	0628	14863								
124		OBS	T1371	0344	34939	2782			14872								

TABLE I.—Continued

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	QUADRANT	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR. 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT		NODC STATION NUMBER
31	886	IN	5247 N	03519 W		184	25	04	25	141	1967	C11	011	2372	14	21	8	5		X2	3	8		0011

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		23	S20	047	069	067	7	14	

MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	QUAL CODE
		STD	0000		3488												
141		OBS	0000		34884												
141		OBS	0008		34883												
		STD	0010		3488												
		STD	0020		3488												
141		OBS	0027	0648	34883	2742			14773								
		STD	0030	0647	3488	2742	0006737		14773								
141		OBS	0043	0646	34884	2742			14775								
		STD	0050	0646	3489	2742	0006736		14776								
141		OBS	0064	0647	34890	2743			14779								
		STD	0075	0636	3491	2746	0006463		14776								
141		OBS	0085	0629	34926	2748			14775								
		STD	0100	0626	3493	2749	0006201		14777								
		STD	0125	0621	3495	2750	0006074		14779								
141		OBS	0128	0620	34947	2751			14779								
		STD	0150	0620	3496	2751	0006036		14783								
141		OBS	T0166	0618	34960	2752			14785								
		STD	0200	0595	3496	2755	0005770		14781								
		STD	0250	0565	3496	2758	0005488		14777								
		STD	0300	0540	3495	2761	0005269		14775								
141		OBS	0369	0514	34948	2764			14776								
		STD	0400	0510	3496	2765	0004971		14780								
141		OBS	0471	0492	34972	2768			14784								
		STD	0500	0478	3497	2770	0004631		14783								
141		OBS	T0576	0446	34955	2772			14782								
		STD	0600	0438	3495	2773	0004416		14783								
		STD	0700	0410	3493	2774	0004338		14787								
141		OBS	0784	0392	34924	2776			14794								
		STD	0800	0390	3492	2775	0004274		14796								
		STD	0900	0378	3492	2777	0004201		14806								
141		OBS	T0980	0367	34918	2778			14816								
		STD	1000	0365	3492	2778	0004159		14818								
		STD	1100	0356	3492	2779	0004136		14831								
		STD	1200	0349	3493	2780	0004060		14845								
		STD	1300	0344	3494	2782	0004005		14860								
141		OBS	T1372	0342	34952	2783			14872								

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	QUADRANT	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR. 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT		NODC STATION NUMBER
31	886	IN	5242 N	03525 W		184	25	04	27	128	1967	C11	012	3500	16	19	5	3		X5	5	8		0012

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		20	S13	213	072	072		14	

MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	QUAL CODE
		STD	0000	0658	3486	2739	0007010	0000	14772								
128		OBS	0000	0658	34859	2739			14772								
		STD	0010	0656	3487	2740	0006935	0007	14773								
128		OBS	0011	0656	34869	2740			14773								
		STD	0020	0654	3486	2739	0006987	0014	14774								
		STD	0030	0653	3486	2739	0006980	0021	14775								
128		OBS	0033	0652	34858	2739			14775								
		STD	0050	0651	3487	2740	0006918	0035	14778								
128		OBS	0054	0651	34872	2741			14778								
		STD	0075	0614	3486	2744	0006574	0052	14767								
128		OBS	0080	0609	34854	2745			14766								
		STD	0100	0610	3491	2749	0006172	0068	14770								
128		OBS	0106	0611	34918	2749			14772								
		STD	0125	0614	3493	2750	0006110	0083	14776								
		STD	0150	0618	3495	2751	0006047	0098	14782								
128		OBS	0160	0619	34954	2751			14784								
		STD	0200	0623	3497	2752	0006033	0128	14792								
128		OBS	0213	0624	34971	2752			14795								
		STD	0250	0606	3497	2754	0005890	0158	14794								
		STD	0300	0581	3497	2757	0005643	0187	14792								
		STD	0400	0528	3496	2763	0005190	0241	14787								
128		OBS	T0424	0515	34956	2764			14786								
		STD	0500	0469	3494	2768	0004747	0291	14779								
128		OBS	0529	0454	34932	2770			14778								
		STD	0600	0423	3492	2772	0004435	0337	14776								
128		OBS	T0634	0411	34920	2773			14777								
		STD	0700	0398	3492	2775	0004274	0380	14782								
		STD	0800	0381	3492	2776	0004170	0423	14792								
128		OBS	0843	0375	34918	2777			14796								
		STD	0900	0370	3491	2777	0004205	0464	14804								
		STD	1000	0361	3491	2778	0004186	0506	14817								
128		OBS	T1043	0358	34907	2778			14823								
		STD	1100	0354	3491	2778	0004186	0548	14830								
		STD	1200	0349	3491	2779	0004207	0590	14845								
		STD	1300	0345	3491	2779	0004238	0632	14860								
		STD	1400	0342	3492	2780	0004206	0675	14876								
		STD	1500	0341	3493	2781	0004198	0717	14892								
128		OBS	T1568	0341	34943	2782			14904								

Table I.—Continued

REFERENCE: CITY CODE	REFERENCE: NO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	E DOC	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR. 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT.	WAVE OBSERVATIONS: PER.	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT.		NODC STATION NUMBER
31	886	IN	5240 N	03522 W		184	25	04	29	121	1967	C11	013	3475	31	16	2	6		X4	5	8		0013

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		32	S07	379	094	089	6	18	

MESSENGR TIME OR HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA–T	SPECIFIC VOLUME ANOMALY–10^7	Σ Δ D DYN. M. Σ 10^3	SOUND VELOCITY	O_2 ml/l	PO_4–P µg–at/l	TOTAL–P µg–at/l	NO_2–N µg–at/l	NO_3–N µg–at/l	$Si\,O_4$–Si µg–at/l	pH	QUAL
		STD	0000	0696	34820	2730	0007794	0000	14787								
121		OBS	0000	0696	34820	2730			14787								
		STD	0010	0681	34822	2732	0007643	0008	14782								
121		OBS	0010	0681	34816	2732			14782								
		STD	0020	0681	34822	2732	0007651	0015	14784								
		STD	0030	0677	34822	2733	0007600	0023	14784								
121		OBS	0032	0675	34819	2733			14784								
		STD	0050	0651	3483	2737	0007213	0038	14777								
121		OBS	0053	0646	34833	2738			14776								
		STD	0075	0600	3483	2744	0006580	0055	14761								
121		OBS	0079	0597	34834	2745			14760								
		STD	0100	0621	3491	2748	0006310	0071	14775								
121		OBS	0105	0625	34925	2748			14777								
		STD	0125	0624	3493	2749	0006236	0087	14780								
		STD	0150	0621	3493	2749	0006235	0102	14783								
121		OBS	0159	0620	34932	2749			14784								
		STD	0200	0614	3494	2751	0006144	0133	14789								
121		OBS	T0214	0611	34945	2752			14790								
		STD	0250	0590	3495	2755	0005836	0163	14787								
		STD	0300	0562	3495	2758	0005554	0192	14784								
		STD	0400	0514	3495	2764	0005094	0245	14781								
121		OBS	T0437	0499	34951	2766			14781								
		STD	0500	0477	3495	2769	0004738	0294	14783								
121		OBS	0543	0463	34956	2770			14784								
		STD	0600	0445	3495	2772	0004498	0340	14786								
121		OBS	T0650	0430	34945	2773			14788								
		STD	0700	0415	3494	2774	0004322	0384	14790								
		STD	0800	0391	3492	2775	0004286	0428	14796								
121		OBS	0858	0380	34917	2776			14801								
		STD	0900	0376	3492	2777	0004216	0470	14806								
		STD	1000	0368	3492	2778	0004202	0512	14820								
121		OBS	T1062	0363	34920	2778			14828								
		STD	1100	0362	3492	2778	0004193	0554	14834								
		STD	1200	0360	3493	2779	0004215	0596	14850								
		STD	1300	0357	3493	2780	0004217	0638	14866								
		STD	1400	0352	3494	2781	0004199	0680	14880								
		STD	1500	0347	3494	2782	0004179	0722	14895								
121		OBS	T1566	0342	34947	2782			14904								
		STD	1750	0326	3495	2784	0004062	0825	14929								
145		OBS	T1777	0324	34948	2784			14932								
		STD	2000	0318	3496	2786	0004048	0927	14968								
145		OBS	T2277	0312	34977	2788			15013								
		STD	2500	0309	3498	2788	0004148	1132	15050								
145		OBS	T2761	0306	34975	2788			15093								
		STD	3000	0303	3498	2788	0004380	1345	15133								
145		OBS	T3099	0302	34976	2789			15150								

TABLE I.—Continued

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPE. BOX	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR. 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'G	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYP	CLOUD CODES: AMT		NODC STATION NUMBER
31	886	IN	5229 N	03553 W		184	25	04	30	126	1967	C11	014	2926	15	06	1	5		X2	7	8		0014

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		09	S08	440	072	061		14	

MESSENGR TIME OF MB 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta D$ DYN. M. $\Sigma 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_4-Si µg-at/l	pH	SCC
		STD	0000	0669	3480	2733	0007569	0000	14776								
125		OBS	0000	0669	34803	2733			14776								
		STD	0010	0670	3481	2733	0007575	0008	14778								
125		OBS	0010	0670	34806	2733			14778								
		STD	0020	0668	3481	2733	0007567	0015	14779								
		STD	0030	0666	3481	2733	0007560	0023	14780								
125		OBS	0032	0666	34806	2733			14780								
		STD	0050	0647	3481	2736	0007326	0038	14775								
125		OBS	0050	0647	34808	2736			14775								
		STD	0075	0630	3483	2740	0006987	0055	14773								
125		OBS	0076	0629	34830	2740			14773								
		STD	0100	0630	3489	2745	0006573	0072	14778								
125		OBS	0100	0630	34890	2745			14778								
		STD	0125	0615	3492	2749	0006197	0088	14776								
		STD	0150	0604	3493	2752	0005990	0104	14776								
125		OBS	0150	0604	34934	2752			14776								
		STD	0200	0596	3493	2752	0005986	0134	14781								
125		OBS	T0201	0596	34931	2752			14781								
		STD	0250	0582	3494	2755	0005810	0163	14784								
		STD	0300	0567	3495	2758	0005617	0192	14786								
125		OBS	0396	0533	34962	2763			14788								
		STD	0400	0531	3496	2763	0005205	0246	14788								
125		OBS	0490	0495	34977	2768			14789								
		STD	0500	0491	3498	2769	0004742	0295	14789								
125		OBS	T0583	0461	34965	2771			14790								
		STD	0600	0455	3496	2772	0004542	0342	14790								
		STD	0700	0422	3494	2774	0004404	0387	14793								
125		OBS	0768	0406	34934	2775			14797								
		STD	0800	0402	3493	2775	0004341	0430	14801								
		STD	0900	0390	3493	2776	0004292	0474	14812								
125		OBS	T0959	0384	34926	2777			14820								
		STD	1000	0380	3493	2777	0004285	0516	14825								
		STD	1100	0371	3493	2778	0004257	0559	14838								
		STD	1200	0363	3493	2779	0004230	0602	14851								
		STD	1300	0357	3493	2780	0004224	0644	14866								
		STD	1400	0352	3493	2780	0004235	0686	14880								
125		OBS	T1489	0349	34935	2781			14894								

TABLE II.—Observed and interpolated oceanographic data from stations taken by USCGC CASTLE ROCK, at Ocean Station CHARLIE, 25 May—14 June 1967, prepared from NODC Listing No. 31–1081.

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPE RECORD	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER.	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
31	1081	CK	5230	N 03512	W	184	25	05	25	169	1967	C12	001	2752	14	31	3	2		X1	6	4		0001

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		32	$10	122	069	050	7	14	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10⁸	Σ Δ D DYN. DL. Σ 10⁵	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₃-N µg-at/l	NO₂-N µg-at/l	SiO₄-Si µg-at/l	pH	QUAL
		STD	0000	0807	3481	2713	0009395	0000	14829								
169		OBS	0000	0807	34810	2713			14829								
169		OBS	0009	0798	34814	2715			14828								
		STD	0010	0797	3481	2715	0009270	0009	14827								
		STD	0020	0789	3481	2716	0009174	0019	14826								
169		OBS	0029	0779	34809	2718			14823								
		STD	0030	0777	3481	2718	0009023	0028	14823								
169		OBS	0048	0749	34818	2723			14815								
		STD	0050	0747	3482	2723	0008565	0045	14815								
169		OBS	0071	0726	34831	2727			14810								
		STD	0075	0706	3483	2730	0007974	0066	14803								
169		OBS	0094	0629	34824	2740			14776								
		STD	0100	0616	3482	2741	0006896	0085	14771								
		STD	0125	0574	3482	2746	0006466	0101	14758								
169		OBS	0142	0553	34812	2748			14753								
		STD	0150	0549	3482	2750	0006169	0117	14752								
169		OBS	T0190	0532	34837	2753			14752								
		STD	0200	0528	3485	2754	0005760	0147	14753								
		STD	0250	0508	3488	2759	0005362	0175	14753								
		STD	0300	0488	3491	2764	0004965	0200	14753								
169		OBS	0379	0456	34925	2769			14753								
		STD	0400	0445	3492	2770	0004509	0248	14752								
169		OBS	0474	0417	34907	2772			14753								
		STD	0500	0413	3491	2772	0004326	0292	14755								
169		OBS	T0570	0403	34911	2773			14763								
		STD	0600	0399	3491	2774	0004258	0335	14766								
		STD	0700	0388	3491	2775	0004219	0377	14778								
169		OBS	0761	0382	34912	2776			14786								
		STD	0800	0378	3491	2776	0004210	0419	14790								
		STD	0900	0370	3491	2777	0004205	0462	14804								
169		OBS	T0950	0366	34908	2777			14810								
		STD	1000	0363	3491	2777	0004209	0504	14817								
		STD	1100	0357	3491	2778	0004222	0546	14832								
		STD	1200	0353	3491	2778	0004256	0588	14847								
		STD	1300	0351	3492	2779	0004238	0631	14863								
		STD	1400	0350	3492	2780	0004306	0673	14879								
169		OBS	1426	0350	34925	2780			14884								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPE RECORD	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER.	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
31	1081	CK	5250	N 03538	W	184	25	05	26	130	1967	C12	002	2835	14	33	2	2		X1	8	4		0002

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		34	$20	146	065	053	7	14	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10⁸	Σ Δ D DYN. DL. Σ 10⁵	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₃-N µg-at/l	NO₂-N µg-at/l	SiO₄-Si µg-at/l	pH	QUAL
		STD	0000	0747	3494	2733	0007586	0000	14808								
130		OBS	0000	0747	34940	2733			14808								
130		OBS	0009	0749	34944	2733			14810								
		STD	0010	0748	3494	2733	0007587	0008	14810								
		STD	0020	0742	3494	2733	0007537	0015	14809								
130		OBS	0029	0736	34940	2734			14809								
		STD	0030	0735	3494	2734	0007473	0023	14808								
130		OBS	0045	0727	34936	2735			14808								
		STD	0050	0724	3494	2736	0007387	0038	14807								
130		OBS	0068	0715	34934	2737			14807								
		STD	0075	0713	3494	2737	0007250	0056	14807								
130		OBS	0091	0704	34950	2739			14806								
		STD	0100	0691	3496	2742	0006846	0073	14803								
		STD	0125	0665	3498	2747	0006393	0090	14797								
130		OBS	0135	0658	34989	2749			14796								
		STD	0150	0658	3500	2750	0006191	0106	14799								
130		OBS	0181	0656	35019	2751			14803								
		STD	0200	0652	3502	2752	0006078	0136	14805								
		STD	0250	0635	3501	2753	0006005	0167	14806								
		STD	0300	0609	3499	2756	0005822	0196	14804								
130		OBS	T0358	0568	34982	2760			14797								
		STD	0400	0521	3496	2764	0005105	0251	14784								
130		OBS	0452	0475	34948	2768			14774								
		STD	0500	0450	3494	2771	0004524	0299	14771								
130		OBS	T0545	0430	34936	2772			14770								
		STD	0600	0413	3493	2774	0004275	0343	14772								
		STD	0700	0389	3492	2776	0004171	0385	14779								
130		OBS	0733	0383	34918	2776			14782								
		STD	0800	0375	3491	2776	0004176	0427	14789								
		STD	0900	0365	3491	2777	0004147	0469	14802								
130		OBS	0925	0363	34905	2777			14805								
		STD	1000	0361	3491	2778	0004185	0510	14817								
		STD	1100	0358	3492	2778	0004191	0552	14832								
		STD	1200	0355	3492	2779	0004194	0594	14848								
		STD	1300	0352	3493	2780	0004197	0636	14864								
		STD	1400	0350	3494	2781	0004191	0678	14879								
130		OBS	T1420	0349	34936	2781			14882								

TABLE II.—Continued

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPLICATE	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
	311081	CK	5253 N	03547 W		184	25	05	27	167	1967	C12	003	3109	14	.32	4	4		X1	6	5		0003

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		30	S26	14	060	042	7	14	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA–T	SPECIFIC VOLUME ANOMALY–10^8	Σ Δ D DYN. M. Σ 10^3	SOUND VELOCITY	O_2 ml/l	PO_4–P µg-at/l	TOTAL–P µg-at/l	NO_3–N µg-at/l	NO_2–N µg-at/l	SiO_4–Si µg-at/l	pH	NODC
		STD	0000	0714	3483	2729	0007951	0000	14794								
167		OBS	0000	0714	34831	2729			14794								
		STD	0010	0716	3483	2728	0008024	0008	14796								
167		OBS	0010	0716	34827	2728			14796								
		STD	0020	0715	3483	2728	0008042	0016	14797								
		STD	0030	0714	3482	2728	0008067	0024	14799								
167		OBS	0030	0714	34822	2728			14799								
167		OBS	0047	0711	34840	2730			14800								
		STD	0050	0712	3486	2731	0007790	0040	14802								
167		OBS	0072	0714	34936	2737			14807								
		STD	0075	0714	3494	2737	0007263	0059	14808								
167		OBS	0095	0708	34958	2740			14809								
		STD	0100	0703	3496	2740	0007007	0077	14808								
		STD	0125	0681	3497	2744	0006679	0094	14803								
167		OBS	0143	0668	34977	2747			14801								
		STD	0150	0666	3498	2747	0006445	0110	14802								
167		OBS	T0194	0648	35008	2752			14802								
		STD	0200	0644	3501	2752	0006040	0141	14801								
		STD	0250	0607	3499	2756	0005747	0171	14795								
		STD	0300	0573	3498	2759	0005506	0199	14789								
167		OBS	T0375	0523	34952	2763			14781								
		STD	0400	0504	3495	2765	0004974	0251	14777								
167		OBS	0469	0465	34938	2769			14772								
		STD	0500	0461	3494	2769	0004653	0299	14776								
167		OBS	T0568	0449	34952	2772			14782								
		STD	0600	0438	3495	2773	0004416	0345	14783								
		STD	0700	0408	3494	2775	0004241	0388	14787								
167		OBS	0755	0396	34930	2776			14791								
		STD	0800	0390	3493	2776	0004215	0430	14796								
		STD	0900	0379	3492	2777	0004214	0472	14808								
167		OBS	T0945	0374	34921	2777			14813								
		STD	1000	0369	3492	2778	0004176	0514	14820								
		STD	1100	0360	3493	2779	0004110	0556	14833								
		STD	1200	0353	3494	2780	0004064	0597	14847								
		STD	1300	0348	3494	2781	0004047	0637	14862								
		STD	1400	0344	3495	2782	0004033	0678	14877								
167		OBS	T1448	0343	34950	2783			14885								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPLICATE	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
	311081	CK	5253 N	03535 W		184	25	05	28	217	1967	C12	004	3146	16	33	3	4		X1	7	5		0004

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		33	S13	129	083	071	7	14	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA–T	SPECIFIC VOLUME ANOMALY–10^8	Σ Δ D DYN. M. Σ 10^3	SOUND VELOCITY	O_2 ml/l	PO_4–P µg-at/l	TOTAL–P µg-at/l	NO_3–N µg-at/l	NO_2–N µg-at/l	SiO_4–Si µg-at/l	pH	NODC
		STD	0000	0734	3493	2734	0007490	0000	14803								
217		OBS	0000	0734	34929	2734			14803								
		STD	0010	0736	3493	2733	0007557	0008	14805								
217		OBS	0010	0736	34926	2733			14805								
		STD	0020	0736	3492	2733	0007589	0015	14807								
		STD	0030	0734	3492	2733	0007586	0023	14808								
217		OBS	0033	0733	34922	2733			14808								
		STD	0050	0725	3490	2733	0007646	0038	14807								
217		OBS	0053	0724	34900	2733			14807								
		STD	0075	0712	3492	2736	0007385	0057	14807								
217		OBS	0081	0709	34933	2737			14806								
		STD	0100	0698	3496	2741	0006940	0075	14806								
217		OBS	0106	0694	34973	2743			14805								
		STD	0125	0678	3499	2746	0006490	0091	14802								
		STD	0150	0661	3501	2750	0006156	0107	14800								
217		OBS	0159	0657	35012	2751			14800								
		STD	0200	0651	3502	2752	0006027	0138	14804								
217		OBS	T0214	0648	35025	2753			14806								
		STD	0250	0628	3501	2755	0005876	0167	14803								
		STD	0300	0599	3499	2757	0005723	0196	14800								
		STD	0400	0538	3496	2762	0005313	0252	14791								
217		OBS	T0424	0522	34959	2764			14789								
		STD	0500	0465	3494	2769	0004700	0302	14777								
217		OBS	0531	0448	34939	2771			14775								
		STD	0600	0425	3493	2773	0004413	0347	14777								
217		OBS	T0634	0415	34926	2773			14779								
		STD	0700	0402	3493	2775	0004283	0391	14784								
		STD	0800	0386	3492	2776	0004206	0433	14794								
217		OBS	0842	0380	34922	2777			14798								
		STD	0900	0374	3492	2777	0004178	0475	14806								
		STD	1000	0364	3492	2778	0004147	0517	14818								
217		OBS	T1048	0360	34919	2778			14824								
		STD	1100	0356	3492	2779	0004136	0558	14831								
		STD	1200	0349	3492	2780	0004134	0599	14845								
		STD	1300	0344	3493	2781	0004079	0641	14860								
		STD	1400	0341	3494	2782	0004047	0681	14876								
		STD	1500	0339	3495	2783	0004026	0722	14892								
217		OBS	1567	0338	34955	2783			14903								

TABLE II.—Continued

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPE BLOCK	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR 1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYP	CLOUD CODES AMT		NODC STATION NUMBER
	311081	CK	52416N	035150W		184	25	05	29	136	1967	C12	005	3585	15	33	1	3		X1	7	7		0005

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		33	S12	139	082	072	7	12	

MESSENGR TIME OR HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^8	$\frac{1}{2}\Delta D$ DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_4-Si µg-at/l	pH	1 CCU
		STD	0000	0762	3491	2728	0008016	0000	14814								
136		OBS	0000	0762	34910	2728			14814								
		STD	0010	0759	3490	2728	0008067	0008	14814								
136		OBS	0010	0759	34900	2728			14814								
		STD	0020	0758	3490	2728	0008063	0016	14815								
		STD	0030	0754	3490	2729	0008017	0024	14815								
136		OBS	0033	0752	34902	2729			14815								
		STD	0050	0737	3494	2734	0007535	0040	14812								
136		OBS	0053	0734	34946	2735			14812								
		STD	0075	0716	3495	2738	0007216	0058	14808								
136		OBS	0081	0712	34955	2739			14808								
		STD	0100	0706	3497	2740	0007003	0076	14809								
136		OBS	0106	0703	34970	2741			14809								
		STD	0125	0683	3498	2745	0006631	0093	14804								
		STD	0150	0665	3499	2748	0006357	0109	14801								
136		OBS	0159	0660	34994	2749			14801								
		STD	0200	0656	3500	2750	0006272	0141	14806								
136		OBS	T0212	0653	34997	2750			14807								
		STD	0250	0629	3500	2753	0005986	0171	14804								
		STD	0300	0598	3500	2757	0005666	0201	14799								
		STD	0400	0534	3499	2765	0005011	0254	14790								
136		OBS	0423	0519	34994	2767			14788								
		STD	0500	0463	3499	2773	0004305	0300	14777								
136		OBS	0527	0450	34981	2774			14776								
		STD	0600	0435	3496	2774	0004306	0344	14782								
136		OBS	T0628	0429	34957	2774			14784								
		STD	0700	0409	3494	2775	0004223	0386	14787								
		STD	0800	0387	3493	2776	0004195	0428	14794								
136		OBS	0834	0381	34920	2776			14798								
		STD	0900	0375	3492	2777	0004190	0470	14806								
		STD	1000	0367	3492	2778	0004182	0512	14819								
136		OBS	T1040	0364	34919	2778			14825								
		STD	1100	0360	3492	2779	0004184	0554	14833								
		STD	1200	0354	3492	2779	0004194	0596	14847								
		STD	1300	0350	3493	2780	0004153	0638	14863								
		STD	1400	0347	3494	2781	0004122	0679	14878								
136		OBS	T1498	0345	34948	2782			14894								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPE BLOCK	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR 1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYP	CLOUD CODES AMT		NODC STATION NUMBER
	311081	CK	5243 N	03534 W		184	25	05	30	139	1967	C12	006	3677	16	33	2			X1	8	4		0006

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		07	S18	068	083	082	6	14	

MESSENGR TIME OR HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^8	$\frac{1}{2}\Delta D$ DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_4-Si µg-at/l	pH	1 CCU
		STD	0000	0778	3482	2719	0008909	0000	14819								
139		OBS	0000	0778	34820	2719			14819								
		STD	0010	0780	3482	2718	0003945	0009	14821								
139		OBS	0011	0780	34821	2718			14821								
		STD	0020	0779	3482	2719	0008944	0018	14822								
		STD	0030	0778	3482	2719	0008940	0027	14823								
139		OBS	0034	0777	34824	2719			14824								
		STD	0050	0774	3483	2720	0008875	0045	14825								
139		OBS	0053	0772	34830	2720			14825								
		STD	0075	0745	3485	2725	0008387	0066	14818								
139		OBS	0079	0736	34849	2727			14816								
		STD	0100	0663	3486	2738	0007221	0086	14791								
139		OBS	0105	0649	34861	2740			14786								
		STD	0125	0619	3487	2745	0006620	0103	14777								
		STD	0150	0593	3488	2749	0006256	0119	14771								
139		OBS	0158	0587	34885	2750			14770								
		STD	0200	0586	3491	2752	0006015	0150	14777								
139		OBS	T0212	0585	34916	2753			14779								
		STD	0250	0560	3492	2756	0005687	0179	14775								
		STD	0300	0531	3493	2760	0005362	0207	14771								
		STD	0400	0484	3494	2766	0004848	0258	14769								
139		OBS	0418	0477	34937	2767			14769								
		STD	0500	0453	3494	2770	0004559	0305	14772								
139		OBS	0521	0447	34944	2771			14773								
		STD	0600	0424	3494	2773	0004327	0349	14777								
139		OBS	0624	0418	34939	2774			14778								
		STD	0700	0403	3493	2775	0004257	0392	14785								
		STD	0800	0387	3493	2777	0004166	0434	14795								
139		OBS	0834	0382	34927	2777			14798								
		STD	0900	0375	3493	2777	0004145	0476	14806								
		STD	1000	0365	3492	2778	0004137	0517	14819								
139		OBS	T1045	0361	34922	2779			14824								
		STD	1100	0359	3493	2779	0004131	0559	14833								
		STD	1200	0356	3493	2780	0004132	0600	14848								
		STD	1300	0353	3494	2781	0004124	0641	14864								
		STD	1400	0350	3495	2781	0004122	0682	14880								
		STD	1500	0347	3495	2782	0004111	0724	14895								
139		OBS	T1595	0344	34958	2783			14910								

TABLE II.—Continued

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	QUADRANT	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR. 1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
311081		CK	5251 N	03525 W		184	25	05	31	171	1967	C12	007	2834	15	05	2	2		X1	4	3		0007

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		01	S12	112	091	082	7	14	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^8	$\Sigma\Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	QUAL
		STD	0000	0798	3497	2727	0008092	0000	14828								
171		OBS	0000	0798	34968	2727			14828								
		STD	0010	0778	3496	2730	0007864	0008	14822								
171		OBS	0010	0778	34963	2730			14822								
		STD	0020	0762	3497	2733	0007605	0016	14818								
		STD	0030	0752	3497	2734	0007484	0023	14815								
171		OBS	0031	0751	34975	2735			14815								
171		OBS	0049	0746	34978	2736			14816								
		STD	0050	0745	3498	2736	0007348	0038	14816								
171		OBS	0074	0720	34995	2741			14810								
		STD	0075	0720	3500	2741	0006898	0056	14811								
171		OBS	0098	0706	35002	2743			14809								
		STD	0100	0703	3500	2744	0006710	0073	14808								
		STD	0125	0670	3500	2748	0006310	0089	14799								
171		OBS	0148	0650	34996	2750			14795								
		STD	0150	0650	3500	2751	0006086	0105	14795								
		STD	0200	0640	3500	2752	0006010	0135	14800								
171		OBS	T0200	0640	35003	2752			14800								
		STD	0250	0613	3500	2756	0005757	0164	14797								
		STD	0300	0585	3499	2758	0005545	0193	14794								
171		OBS	T0394	0531	34970	2764			14787								
		STD	0400	0527	3497	2764	0005104	0246	14787								
171		OBS	0496	0471	34939	2768			14779								
		STD	0500	0469	3494	2768	0004755	0295	14779								
171		OBS	0595	0434	34933	2772			14780								
		STD	0600	0433	3493	2772	0004506	0341	14781								
		STD	0700	0408	3493	2774	0004315	0386	14787								
171		OBS	0794	0389	34926	2776			14794								
		STD	0800	0388	3493	2776	0004207	0428	14795								
		STD	0900	0373	3492	2777	0004174	0470	14805								
171		OBS	T0990	0363	34913	2778			14816								
		STD	1000	0363	3491	2778	0004176	0512	14817								
		STD	1100	0360	3492	2779	0004177	0554	14833								
		STD	1200	0358	3493	2779	0004177	0595	14849								
		STD	1300	0355	3494	2780	0004176	0637	14865								
		STD	1400	0352	3494	2781	0004173	0679	14880								
171		OBS	T1490	0350	34948	2782			14895								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	QUADRANT	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR. 1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
311081		CK	52465N	03538 W		184	25	06	01	134	1967	C12	008	3036	16	06	1			X2	7	8		0008

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		08	S12	064	072	071	6	14	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^8	$\Sigma\Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	QUAL
		STD	0000	0811	3482	2713	0009400	0000	14831								
134		OBS	0000	0811	34817	2713			14831								
		STD	0010	0812	3482	2713	0009410	0009	14833								
134		OBS	0010	0812	34820	2713			14833								
		STD	0020	0788	3483	2718	0009011	0019	14826								
		STD	0030	0764	3485	2723	0008543	0027	14818								
134		OBS	0033	0757	34853	2724			14816								
		STD	0050	0716	3488	2732	0007695	0044	14803								
134		OBS	0051	0714	34884	2733			14803								
		STD	0075	0674	3488	2738	0007162	0062	14791								
134		OBS	0077	0670	34882	2739			14790								
		STD	0100	0616	3488	2746	0006501	0079	14772								
134		OBS	0102	0613	34875	2746			14771								
		STD	0125	0608	3490	2748	0006262	0095	14773								
		STD	0150	0603	3492	2751	0006085	0111	14776								
134		OBS	0151	0603	34925	2751			14776								
		STD	0200	0604	3493	2751	0006090	0141	14784								
134		OBS	T0206	0604	34935	2752			14785								
		STD	0250	0566	3493	2756	0005686	0171	14777								
		STD	0300	0530	3492	2760	0005387	0198	14771								
134		OBS	0390	0481	34919	2765			14766								
		STD	0400	0478	3492	2766	0004892	0250	14766								
		STD	0500	0450	3493	2770	0004602	0297	14771								
134		OBS	0501	0450	34933	2770			14771								
		STD	0600	0426	3493	2772	0004420	0342	14778								
134		OBS	0601	0426	34931	2773			14778								
		STD	0700	0405	3493	2774	0004310	0386	14785								
		STD	0800	0387	3492	2776	0004232	0429	14794								
134		OBS	0807	0386	34921	2776			14795								
		STD	0900	0375	3491	2776	0004241	0471	14806								
		STD	1000	0365	3491	2777	0004270	0513	14818								
134		OBS	T1013	0364	34904	2777			14820								
		STD	1100	0357	3491	2778	0004229	0556	14832								
		STD	1200	0350	3492	2779	0004182	0598	14846								
		STD	1300	0345	3492	2780	0004150	0640	14860								
		STD	1400	0341	3493	2781	0004135	0681	14876								
		STD	1500	0339	3493	2782	0004143	0723	14892								
134		OBS	T1551	0339	34937	2782			14900								

TABLE II.—Continued

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPE INDICTR	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR.1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYP	CLOUD CODES: AMT		NODC STATION NUMBER
311081	CK	5248 N	03536 W		184	25	06	02	136	1967	C12	009	2414	15	24	3	3		X1	2	6		0009

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		24	S02	152	101	080	7	14	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA–T	SPECIFIC VOLUME ANOMALY–10^8	Σ Δ D DYN. M. Σ 10^3	SOUND VELOCITY	O_2 ml/l	PO_4–P µg-at/l	TOTAL–P µg-at/l	NO_3–N µg-at/l	NO_3–N µg-at/l	SiO_4–Si µg-at/l	pH	QUAL CODE
		STD	0000	0786	3493	2726	0008211	0000	14823								
136		OBS	0000	0786	34929	2726			14823								
		STD	0010	0773	3493	2728	0008054	0008	14820								
136		OBS	0010	0773	34928	2728			14820								
		STD	0020	0758	3495	2732	0007698	0016	14816								
		STD	0030	0747	3496	2734	0007489	0024	14813								
136		OBS	0032	0746	34966	2735			14813								
		STD	0050	0744	3498	2736	0007363	0038	14816								
136		OBS	0052	0743	34977	2736			14816								
		STD	0075	0716	3498	2740	0006993	0056	14809								
136		OBS	0078	0711	34984	2741			14807								
		STD	0100	0667	3497	2746	0006432	0073	14794								
136		OBS	0103	0663	34971	2747			14793								
		STD	0125	0659	3499	2749	0006237	0089	14795								
		STD	0150	0654	3500	2750	0006139	0104	14797								
136		OBS	0155	0653	35005	2751			14798								
		STD	0200	0656	3504	2753	0005948	0135	14807								
136		OBS	T0209	0657	35041	2753			14808								
		STD	0250	0640	3503	2754	0005884	0164	14808								
		STD	0300	0615	3501	2756	0005781	0193	14806								
		STD	0400	0556	3498	2761	0005389	0249	14799								
136		OBS	T0407	0551	34977	2762			14798								
		STD	0500	0480	3495	2768	0004833	0300	14784								
136		OBS	0508	0476	34943	2768			14783								
		STD	0600	0445	3494	2771	0004565	0347	14786								
136		OBS	T0608	0442	34941	2772			14786								
		STD	0700	0412	3493	2774	0004354	0392	14788								
		STD	0800	0388	3492	2776	0004244	0435	14795								
136		OBS	0808	0386	34920	2776			14795								
		STD	0900	0376	3491	2776	0004275	0478	14806								
		STD	1000	0367	3491	2777	0004256	0520	14819								
136		OBS	T1006	0366	34905	2777			14820								
		STD	1100	0359	3491	2778	0004231	0563	14833								
		STD	1200	0353	3492	2779	0004182	0605	14847								
		STD	1300	0349	3493	2780	0004162	0646	14862								
		STD	1400	0347	3493	2781	0004166	0688	14878								
		STD	1500	0347	3494	2782	0004186	0730	14895								
136		OBS	1501	0347	34942	2782			14895								

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPE INDICTR	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR.1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYP	CLOUD CODES: AMT		NODC STATION NUMBER
311081	CK	52465N	03538 W		184	25	06	03	132	1967	C12	010	2926	16	26	1	2		X1	8	6		0010

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		26	S08	865	079	063	7	14	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA–T	SPECIFIC VOLUME ANOMALY–10^8	Σ Δ D DYN. M. Σ 10^3	SOUND VELOCITY	O_2 ml/l	PO_4–P µg-at/l	TOTAL–P µg-at/l	NO_3–N µg-at/l	NO_3–N µg-at/l	SiO_4–Si µg-at/l	pH	QUAL CODE
		STD	0000	0791	3492	2724	0008364	0000	14825								
132		OBS	0000	0791	34918	2724			14825								
		STD	0010	0781	3492	2726	0008240	0008	14823								
132		OBS	0011	0780	34918	2726			14822								
		STD	0020	0762	3493	2729	0007933	0016	14817								
		STD	0030	0749	3494	2732	0007703	0024	14814								
132		OBS	0034	0745	34938	2733			14813								
		STD	0050	0743	3494	2733	0007632	0040	14815								
132		OBS	0054	0741	34938	2733			14815								
		STD	0075	0717	3493	2736	0007356	0058	14809								
132		OBS	0081	0709	34932	2737			14806								
		STD	0100	0680	3495	2743	0006775	0076	14798								
132		OBS	0107	0672	34962	2745			14797								
		STD	0125	0665	3498	2747	0006393	0092	14797								
		STD	0150	0656	3499	2749	0006239	0108	14798								
132		OBS	0160	0654	34999	2750			14799								
		STD	0200	0651	3501	2751	0006102	0139	14804								
132		OBS	T0215	0648	35015	2752			14806								
		STD	0250	0612	3500	2756	0005744	0169	14797								
		STD	0300	0568	3497	2759	0005480	0197	14787								
		STD	0400	0506	3494	2764	0005072	0249	14778								
132		OBS	T0426	0496	34937	2765			14778								
		STD	0500	0488	3494	2766	0005011	0300	14787								
132		OBS	0532	0478	34934	2767			14788								
		STD	0600	0433	3493	2772	0004506	0347	14781								
132		OBS	T0640	0412	34921	2773			14778								
		STD	0700	0398	3491	2774	0004348	0392	14782								
		STD	0800	0379	3490	2775	0004296	0435	14791								
132		OBS	0851	0371	34895	2775			14796								
		STD	0900	0366	3490	2776	0004270	0478	14802								
		STD	1000	0357	3489	2777	0004257	0520	14815								
132		OBS	T1066	0352	34893	2777			14824								
		STD	1100	0351	3490	2778	0004241	0563	14829								
		STD	1200	0349	3491	2779	0004185	0605	14845								
		STD	1300	0347	3493	2780	0004134	0647	14861								
		STD	1400	0345	3494	2782	0004076	0688	14877								
		STD	1500	0342	3496	2783	0004015	0728	14893								
132		OBS	T1597	0340	34971	2785			14909								

Table II.—Continued

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	QUADRANT	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR 1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'G	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
311081		CK	5235 N	03530 W		184	25	06	04	173	1967	C12	011	3475	10	24	3	5		X2	7	8		0011

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		27	S30	163	092	088	6	13	

MESSENGR TIME or HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^8	$\Sigma\Delta D$ DYN. M $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	
		STD	0000	0784	3497	2730	0007871	0000	14823								
173		OBS	0000	0784	34971	2730			14823								
		STD	0010	0786	3497	2729	0007910	0008	14825								
173		OBS	0010	0786	34972	2729			14825								
		STD	0020	0778	3497	2730	0007830	0016	14824								
		STD	0030	0765	3497	2732	0007687	0024	14820								
173		OBS	0030	0765	34967	2732			14820								
173		OBS	0047	0734	34998	2739			14812								
		STD	0050	0731	3500	2740	0007006	0038	14811								
173		OBS	0072	0712	35008	2743			14807								
		STD	0075	0709	3501	2743	0006690	0055	14806								
173		OBS	0095	0692	35008	2746			14803								
		STD	0100	0686	3501	2747	0006422	0072	14802								
		STD	0125	0663	3501	2750	0006173	0087	14797								
173		OBS	0141	0654	35005	2751			14796								
		STD	0150	0654	3501	2751	0006067	0103	14797								
173		OBS	T0190	0655	35043	2754			14805								
		STD	0200	0652	3504	2754	0005892	0133	14805								
		STD	0250	0633	3504	2756	0005718	0162	14806								
		STD	0300	0609	3503	2759	0005554	0190	14804								
173		OBS	T0381	0557	35014	2764			14796								
		STD	0400	0537	3500	2765	0005003	0243	14791								
173		OBS	0478	0476	34972	2770			14779								
		STD	0500	0468	3497	2771	0004512	0290	14779								
173		OBS	0577	0443	34962	2773			14781								
		STD	0600	0438	3496	2774	0004341	0335	14783								
		STD	0700	0416	3495	2775	0004260	0378	14790								
173		OBS	0781	0401	34945	2776			14797								
		STD	0800	0398	3494	2776	0004220	0420	14799								
		STD	0900	0383	3493	2777	0004209	0462	14809								
173		OBS	T0995	0372	34926	2778			14821								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	QUADRANT	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR 1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'G	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
311081		CK	5249 N	03533 W		184	25	06	05	136	1967	C12	012	2926	14	23	4	2		X1	4	3		0012

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		23	S24	152	107	099	6	14	

MESSENGR TIME or HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^8	$\Sigma\Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	
		STD	0000	0800	3489	2721	0008685	0000	14828								
136		OBS	0000	0800	34892	2721			14828								
		STD	0010	0801	3489	2720	0008747	0009	14830								
136		OBS	0010	0801	34888	2720			14830								
		STD	0020	0776	3494	2728	0008024	0017	14823								
		STD	0030	0757	3497	2733	0007553	0025	14817								
136		OBS	0032	0754	34974	2734			14817								
		STD	0050	0736	3500	2738	0007112	0040	14813								
136		OBS	0050	0736	34995	2738			14813								
		STD	0075	0723	3500	2741	0006932	0057	14812								
136		OBS	0075	0723	35001	2741			14812								
		STD	0100	0689	3501	2746	0006455	0074	14803								
136		OBS	0100	0689	35009	2746			14803								
		STD	0125	0659	3501	2750	0006121	0090	14795								
136		OBS	0149	0643	35002	2752			14793								
		STD	0150	0643	3500	2752	0005976	0105	14793								
		STD	0200	0652	3504	2754	0005862	0134	14805								
136		OBS	T0200	0652	35044	2754			14805								
		STD	0250	0625	3502	2756	0005763	0163	14802								
		STD	0300	0595	3501	2759	0005523	0192	14798								
136		OBS	0391	0532	34971	2764			14787								
		STD	0400	0522	3497	2765	0005042	0244	14785								
136		OBS	0485	0456	34935	2770			14771								
		STD	0500	0452	3494	2770	0004548	0292	14772								
136		OBS	0578	0432	34942	2773			14777								
		STD	0600	0425	3494	2773	0004339	0337	14777								
		STD	0700	0400	3493	2775	0004223	0380	14783								
136		OBS	0767	0387	34923	2776			14789								
		STD	0800	0383	3492	2776	0004171	0422	14793								
		STD	0900	0372	3492	2778	0004125	0463	14805								
136		OBS	T0959	0367	34925	2778			14813								
		STD	1000	0364	3493	2779	0004073	0504	14818								
		STD	1100	0356	3493	2780	0004062	0545	14832								
		STD	1200	0351	3494	2781	0004010	0585	14846								
		STD	1300	0347	3494	2781	0004042	0625	14861								
		STD	1400	0345	3495	2782	0004023	0666	14878								
136		OBS	T1437	0345	34956	2783			14884								

TABLE II.—Continued

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPE CHECK	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'G	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYP	CLOUD CODES: AMT		NODC STATION NUMBER
311081		CK	5238 N	03514 W		184	25	06	06	133	1967	C12	013	3091	16	25	3	3		X0	0	0		0013

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		25	S13	160	107	095	6	14	

MESSENGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S °/₀₀	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\frac{1}{2}\Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	
		STD	0000	0866	3481	2704	0010242	0000	14852								
133		OBS	0000	0866	34812	2704			14852								
		STD	0010	0846	3481	2708	0009958	0010	14846								
133		OBS	0011	0844	34813	2708			14845								
		STD	0020	0835	3481	2709	0009837	0020	14843								
		STD	0030	0813	3481	2713	0009536	0030	14837								
133		OBS	0034	0800	34808	2714			14832								
		STD	0050	0720	3481	2726	0008308	0048	14804								
133		OBS	0054	0703	34804	2728			14798								
		STD	0075	0640	3484	2740	0007036	0067	14777								
133		OBS	0081	0626	34849	2742			14773								
		STD	0100	0596	3485	2746	0006461	0084	14764								
133		OBS	0108	0586	34848	2747			14761								
		STD	0125	0579	3486	2749	0006236	0099	14761								
		STD	0150	0568	3487	2751	0006061	0115	14761								
133		OBS	0162	0563	34870	2752			14761								
		STD	0200	0545	3488	2754	0005768	0144	14760								
133		OBS	T0218	0536	34879	2756			14759								
		STD	0250	0519	3489	2759	0005417	0172	14758								
		STD	0300	0495	3490	2762	0005121	0199	14756								
		STD	0400	0456	3492	2768	0004635	0247	14757								
133		OBS	T0435	0445	34922	2770			14758								
		STD	0500	0430	3492	2771	0004421	0293	14763								
133		OBS	0553	0418	34924	2773			14766								
		STD	0600	0407	3492	2774	0004259	0336	14770								
133		OBS	T0659	0396	34922	2775			14775								
		STD	0700	0392	3492	2775	0004190	0378	14780								
		STD	0800	0382	3492	2777	0004160	0420	14792								
133		OBS	0871	0375	34923	2777			14801								
		STD	0900	0372	3492	2777	0004147	0462	14805								
		STD	1000	0364	3492	2778	0004184	0503	14818								
133		OBS	T1088	0358	34910	2778			14830								
		STD	1100	0357	3491	2778	0004214	0545	14832								
		STD	1200	0352	3492	2779	0004170	0587	14846								
		STD	1300	0348	3493	2780	0004135	0629	14862								
		STD	1400	0345	3494	2781	0004111	0670	14877								
		STD	1500	0344	3495	2782	0004111	0711	14894								
133		OBS	T1640	0344	34960	2783			14918								

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPE CHECK	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'G	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYP	CLOUD CODES: AMT		NODC STATION NUMBER
311081		CK	52395N	03533 W		184	25	06	07	139	1967	C12	014	3621	15	25	2	3		X1	2	3		0014

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		25	S10	173	111	101	2	14	

MESSENGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S °/₀₀	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\frac{1}{2}\Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	
		STD	0000	0901	3478	2697	0010986	0000	14865								
139		OBS	0000	0901	34783	2697			14865								
139		OBS	0009	0885	34782	2699			14860								
		STD	0010	0881	3478	2700	0010724	0011	14859								
		STD	0020	0838	3478	2706	0010104	0021	14844								
		STD	0030	0796	3478	2712	0009544	0031	14830								
139		OBS	0030	0796	34776	2712			14830								
139		OBS	0049	0719	34782	2724			14803								
		STD	0050	0713	3478	2725	0008377	0049	14801								
139		OBS	0073	0611	34809	2741			14765								
		STD	0075	0605	3481	2742	0006821	0068	14763								
139		OBS	0097	0555	34821	2749			14746								
		STD	0100	0554	3482	2749	0006140	0084	14746								
		STD	0125	0546	3484	2751	0005959	0099	14747								
139		OBS	0146	0538	34852	2753			14748								
		STD	0150	0536	3485	2754	0005776	0114	14748								
139		OBS	T0194	0514	34854	2756			14746								
		STD	0200	0512	3486	2757	0005497	0142	14746								
		STD	0250	0497	3488	2761	0005234	0169	14748								
		STD	0300	0482	3489	2763	0005045	0195	14751								
139		OBS	0388	0456	34915	2768			14755								
		STD	0400	0452	3492	2769	0004589	0243	14755								
139		OBS	0484	0429	34927	2772			14760								
		STD	0500	0426	3493	2772	0004323	0287	14761								
139		OBS	T0581	0412	34933	2774			14769								
		STD	0600	0408	3493	2774	0004218	0330	14770								
		STD	0700	0387	3492	2776	0004148	0372	14778								
139		OBS	0775	0375	34909	2776			14785								
		STD	0800	0372	3491	2776	0004156	0414	14788								
		STD	0900	0361	3491	2777	0004138	0455	14800								
139		OBS	T0969	0355	34902	2778			14809								
		STD	1000	0355	3490	2778	0004155	0496	14814								
		STD	1100	0353	3491	2779	0004161	0538	14830								
		STD	1200	0352	3492	2779	0004174	0580	14846								
		STD	1300	0350	3493	2780	0004184	0621	14863								
		STD	1400	0349	3493	2781	0004195	0663	14879								
139		OBS	1451	0348	34937	2781			14887								

COUNTRY CODE	CRUISE NUMBER	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARSDEN SQUARE 10°	1°	STATION TIME (GMT) MONTH	DAY	HR. 1/10	YEAR	ORIGINATOR'S CRUISE NUMBER	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. SAMPLE DEP	WAVE OBSERVATIONS DIR.	HGT.	PER.	SEA AMT.	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT.	NODC STATION NUMBER
31	1081	CK	5262 N	03547 W		184	25	05	08	202	1967	C12	015	3731	1	18	3	2		X2	2	8	0015

*DT WATER COLOR	*S_0 TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mb)	AIR TEMPERATURE °C DRY BULB	AIR TEMPERATURE °C WET BULB	VIS. CODE	NUMBER OBS. LEVELS	SPECIAL OBSERVATIONS
		21	S10	176	100	094	6	18	

CAST NO.	TIME DURATION (HR. NEAREST TENTH)	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY - 0	1000 DYN M. 0	COMPUTED SOUND VELOCITY m/sec	O_2 ml/l	AMBIENT LIGHT PO_4-P	AMBIENT LIGHT TOTAL-P	AMBIENT LIGHT NO_3-N	AMBIENT LIGHT NO_2-N	AMBIENT LIGHT SiO_4-Si	MEASURED SOUND VELOCITY	pH
		STD	0000	0875	3479	2702	0010520	0000	14855								
170		OBS	0000	0875	34793	2702			14855								
		STD	0010	0872	3479	2702	0010503	0010	14856								
170		OBS	0010	0872	34792	2702			14856								
		STD	0020	0850	3479	2705	0010196	0020	14849								
		STD	0030	0822	3479	2710	0009807	0030	14840								
170		OBS	0033	0812	34791	2711			14837								
		STD	0050	0746	3479	2721	0008770	0049	14814								
170		OBS	0051	0742	34790	2721			14813								
		STD	0075	0670	3483	2734	0007527	0069	14789								
170		OBS	0078	0661	34828	2736			14796								
		STD	0100	0600	3483	2744	0006666	0087	14765								
170		OBS	0104	0591	34827	2745			14762								
		STD	0125	0566	3483	2748	0006268	0103	14755								
		STD	0150	0551	3485	2751	0005998	0119	14754								
170		OBS	0155	0550	34852	2752			14754								
		STD	0200	0577	3493	2755	0005769	0148	14773								
170		OBS	T0209	0580	34940	2755			14776								
		STD	0250	0551	3494	2759	0005445	0176	14771								
		STD	0300	0520	3494	2762	0005137	0203	14767								
		STD	0400	0470	3493	2768	0004693	0252	14763								
170		OBS	T0412	0465	34934	2768			14763								
		STD	0500	0438	3494	2772	0004390	0297	14766								
170		OBS	0510	0433	34940	2772			14767								
		STD	0600	0413	3494	2774	0004234	0340	14772								
170		OBS	T0612	0410	34935	2775			14773								
		STD	0700	0394	3493	2776	0004138	0382	14791								
		STD	0800	0379	3493	2777	0004094	0423	14791								
170		OBS	0825	0376	34926	2777			14794								
		STD	0900	0370	3492	2778	0004129	0464	14804								
		STD	1000	0363	3492	2778	0004163	0506	14818								
170		OBS	T1034	0361	34916	2778			14822								
		STD	1100	0359	3492	2779	0004173	0547	14833								
		STD	1200	0355	3492	2779	0004175	0589	14848								
		STD	1300	0352	3493	2780	0004175	0631	14863								
		STD	1400	0348	3494	2781	0004172	0673	14879								
		STD	1500	0345	3494	2782	0004159	0714	14894								
170		OBS	T1580	0342	34947	2782			14907								
		STD	1750	0335	3496	2784	0004065	0817	14933								
		STD	2000	0326	3498	2787	0003988	0918	14971								
202		OBS	T2134	0321	34999	2788			14992								
		STD	2500	0310	3500	2789	0004008	1118	15050								
202		OBS	T2693	0306	34997	2790			15080								
		STD	3000	0304	3499	2790	0004271	1325	15134								
202		OBS	T3233	0299	34985	2790			15172								
202		OBS	T3391	0292	34980	2790			15197								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARSDEN SQUARE 10°	1°	STATION TIME (GMT) MO	DAY	HR. 1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS DIR.	HGT.	PER.	SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT.	NODC STATION NUMBER
31	1081	CK	52535N	03540 W		184	25	06	09	102	1967	C12	016	2707	15	19	3	2		X1	7	7	0016

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mb)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		19	S10	125	100	094	7	14	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^8	$\frac{1}{2}\Delta D$ DYN M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_4-Si µg-at/l	pH	NODC
		STD	0000	0855	3497	2718	0008921	0000	14850								
102		OBS	0000	0855	34968	2718			14850								
102		OBS	0009	0857	34964	2718			14852								
		STD	0010	0852	3496	2719	0008926	0009	14850								
		STD	0020	0814	3496	2724	0008425	0018	14837								
		STD	0030	0789	3496	2728	0008115	0026	14829								
102		OBS	0031	0787	34954	2728			14829								
102		OBS	0049	0775	34956	2730			14827								
		STD	0050	0773	3496	2730	0007887	0042	14827								
102		OBS	0074	0736	34984	2738			14817								
		STD	0075	0735	3498	2737	0007253	0061	14816								
102		OBS	0098	0712	34979	2741			14811								
		STD	0100	0709	3498	2741	0006940	0079	14810								
		STD	0125	0677	3500	2747	0006402	0095	14802								
102		OBS	0147	0657	35009	2751			14798								
		STD	0150	0656	3501	2751	0006090	0111	14798								
102		OBS	T0198	0638	35034	2755			14799								
		STD	0200	0637	3503	2755	0005770	0140	14799								
		STD	0250	0611	3503	2758	0005508	0169	14797								
		STD	0300	0585	3502	2761	0005322	0196	14794								
102		OBS	T0388	0538	35000	2765			14790								
		STD	0400	0530	3500	2766	0004917	0247	14788								
102		OBS	0486	0484	34972	2769			14783								
		STD	0500	0478	3497	2770	0004631	0295	14783								
102		OBS	0582	0448	34967	2773			14784								
		STD	0600	0443	3496	2773	0004400	0340	14785								
		STD	0700	0416	3494	2774	0004334	0384	14790								
102		OBS	0773	0400	34934	2776			14796								
		STD	0800	0395	3493	2776	0004259	0426	14798								
		STD	0900	0378	3493	2777	0004151	0469	14807								
102		OBS	T0966	0369	34927	2778			14815								
		STD	1000	0367	3493	2779	0004112	0510	14820								
		STD	1100	0362	3493	2779	0004136	0551	14834								
		STD	1200	0357	3493	2780	0004159	0593	14849								
		STD	1300	0352	3494	2781	0004105	0634	14864								
		STD	1400	0347	3495	2782	0004048	0675	14878								
102		OBS	T1499	0342	34962	2784			14893								

Table II.—Continued

Reference Ctry code / ID. No.	Ship code	Latitude ° 1/10	Longitude ° 1/10	Marsden square 10°	Marsden square 1°	Station time (GMT) Mo	Day	Hr 1/10	Year	Originator's cruise no.	Station number	Depth to bottom	Max. sample/depth	Wave obs. dir.	Hgt.	Per.	Sea amt.	Weather code	Cloud type	Cloud amt.	NODC station number
311091	CK	5244 N	03534 W	184	25	06	10	195	1967	C12	017	3573	1	28	2	3		X1	9	2	0017

* [redacted]

Water color	Trans. (m)	Wind dir.	Speed or force	Barometer (mb)	Air temp. °C dry bulb	Wet bulb	Vis. code	Number obs. levels	Special observations
		29	S05	193	083	061	7	14	

Cast time	Cast no.	Card type	Depth m	T °C	S ‰	Sigma-T	Specific volume anomaly ×10⁷	ΣΔD dyn. m. ×10³	Computed sound velocity m/sec	O₂ ml/l	PO₄-P	Total-P	NO₂-N	NO₃-N	SiO₄-Si	pH
		STD	0000	0870	3493	2713	0009453	0000	14955							
195		OBS	0000	0870	34927	2713			14855							
		STD	0010	0857	3492	2715	0009301	0009	14852							
195		OBS	0010	0857	34924	2715			14852							
		STD	0020	0812	3491	2720	0008776	0018	14836							
		STD	0030	0779	3490	2725	0008368	0027	14825							
195		OBS	0033	0771	34902	2726			14922							
		STD	0050	0749	3492	2730	0007895	0043	14817							
195		OBS	0052	0747	34919	2731			14816							
		STD	0075	0723	3494	2736	0007356	0062	14811							
195		OBS	0078	0719	34948	2737			14810							
		STD	0100	0680	3497	2744	0006612	0079	14799							
195		OBS	0104	0675	34976	2746			14797							
		STD	0125	0669	3499	2748	0006351	0096	14799							
		STD	0150	0664	3501	2750	0006191	0111	14801							
195		OBS	0156	0663	35015	2750			14802							
		STD	0200	0662	3504	2752	0006033	0142	14809							
195		OBS	T0209	0662	35043	2753			14810							
		STD	0250	0630	3502	2755	0005841	0171	14804							
		STD	0300	0595	3500	2758	0005612	0200	14798							
		STD	0400	0536	3498	2764	0005168	0254	14790							
195		OBS	T0412	0530	34976	2764			14790							
		STD	0500	0494	3499	2769	0004639	0303	14790							
195		OBS	0512	0489	34989	2770			14790							
		STD	0600	0457	3497	2772	0004496	0349	14791							
195		OBS	0614	0453	34970	2773			14792							
		STD	0700	0429	3496	2775	0004324	0393	14796							
		STD	0800	0407	3495	2776	0004221	0436	14803							
195		OBS	0822	0403	34953	2777			14805							
		STD	0900	0393	3494	2777	0004214	0478	14814							
		STD	1000	0381	3494	2778	0004232	0520	14825							
195		OBS	T1036	0377	34934	2778			14830							
		STD	1100	0371	3494	2779	0004199	0562	14838							
		STD	1200	0363	3494	2780	0004135	0604	14851							
		STD	1300	0357	3495	2781	0004101	0645	14866							
		STD	1400	0352	3495	2782	0004088	0686	14881							
		STD	1500	0350	3496	2783	0004038	0727	14896							
195		OBS	T1586	0349	34963	2783			14911							

Reference Ctry code / ID. No.	Ship code	Latitude ° 1/10	Longitude ° 1/10	Marsden square 10°	Marsden square 1°	Station time (GMT) Mo	Day	Hr 1/10	Year	Originator's cruise no.	Station number	Depth to bottom	Max. depth of s'mpl's	Wave obs. dir.	Hgt.	Per.	Sea	Weather code	Cloud type	Cloud amt.	NODC station number
311081	CK	52345N	035245W	184	25	06	11	167	1967	C12	018	2972	14	23	1	2		X1	2	3	0018

Water color code	Trans. (m)	Wind dir.	Speed or force	Barometer (mbs)	Air temp. °C dry bulb	Wet bulb	Vis. code	No. obs. depths	Special observations
		16	S10	166	111	094	7	14	

Messenger time or HR 1/10	Cast no.	Card type	Depth (m)	T °C	S ‰	Sigma-T	Specific volume anomaly ×10⁷	ΣΔD dyn. m. ×10³	Sound velocity	O₂ ml/l	PO₄-P µg-at/l	Total-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH
		STD	0000	0927	3477	2692	0011460	0000	14874							
167		OBS	0000	0927	34773	2692			14874							
		STD	0010	0878	3477	2699	0010761	0011	14857							
167		OBS	0010	0878	34769	2699			14857							
		STD	0020	0827	3477	2707	0010017	0021	14840							
		STD	0030	0788	3477	2713	0009475	0031	14827							
167		OBS	0030	0788	34770	2713			14827							
167		OBS	0049	0749	34775	2719			14815							
		STD	0050	0745	3478	2720	0008835	0050	14813							
167		OBS	0073	0663	34826	2735			14786							
		STD	0075	0656	3483	2737	0007316	0070	14783							
167		OBS	0097	0600	34866	2747			14765							
		STD	0100	0598	3487	2747	0006322	0087	14765							
		STD	0125	0583	3487	2749	0006172	0102	14763							
167		OBS	0144	0576	34882	2751			14763							
		STD	0150	0576	3489	2752	0005972	0118	14764							
167		OBS	T0190	0572	34915	2754			14770							
		STD	0200	0563	3491	2755	0005702	0147	14768							
		STD	0250	0522	3491	2760	0005318	0174	14759							
		STD	0300	0488	3490	2763	0005025	0200	14753							
167		OBS	0374	0451	34893	2767			14750							
		STD	0400	0444	3490	2768	0004647	0249	14752							
167		OBS	0466	0427	34919	2771			14756							
		STD	0500	0419	3492	2772	0004326	0293	14758							
167		OBS	T0561	0407	34920	2774			14763							
		STD	0600	0400	3492	2774	0004202	0336	14767							
		STD	0700	0385	3491	2775	0004200	0378	14777							
167		OBS	0753	0379	34908	2776			14783							
		STD	0800	0375	3490	2775	0004250	0420	14789							
		STD	0900	0367	3490	2776	0004245	0463	14802							
167		OBS	T0941	0364	34896	2776			14808							
		STD	1000	0360	3490	2777	0004248	0505	14816							
		STD	1100	0356	3490	2777	0004284	0548	14831							
		STD	1200	0352	3490	2778	0004317	0591	14846							
		STD	1300	0351	3491	2779	0004312	0634	14863							
		STD	1400	0351	3492	2779	0004318	0677	14880							
167		OBS	1429	0351	34928	2780			14885							

TABLE II.—Continued

REFERENCE: CTRY CODE	REFERENCE: NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	QUAD NO.	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT		NODC STATION NUMBER
311081	CK	5242 N		03517 W		184	25	06	12	193	1967	C12	019	3694	16	16	4	2		X1	6	5		0019

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		18	509	037	094	089	7	13	

MESSENGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA–T	SPECIFIC VOLUME ANOMALY–10^7	$\Sigma\Delta D$ DYN. M. $\Sigma 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4–P µg-at/l	TOTAL–P µg-at/l	NO_3–N µg-at/l	NO_2–N µg-at/l	SiO_4–Si µg-at/l	pH	
		STD	0000	0894	3493	2709	0009789	0000	14864								
193		OBS	0000	0894	34930	2709			14864								
		STD	0010	0869	3493	2713	0009454	0010	14856								
193		OBS	0010	0869	34927	2713			14856								
		STD	0020	0829	3494	2720	0008770	0019	14843								
		STD	0030	0795	3496	2727	0008193	0027	14832								
193		OBS	0032	0789	34959	2728			14830								
		STD	0050	0746	3496	2734	0007510	0043	14816								
193		OBS	0051	0744	34961	2735			14816								
		STD	0075	0729	3499	2739	0007096	0061	14814								
193		OBS	0078	0726	34996	2740			14813								
		STD	0100	0690	3500	2745	0006535	0078	14803								
193		OBS	0103	0686	35000	2746			14802								
		STD	0125	0667	3501	2749	0006233	0094	14798								
		STD	0150	0652	3501	2751	0006038	0110	14796								
193		OBS	0155	0650	35011	2752			14796								
		STD	0200	0650	3504	2754	0005866	0139	14804								
193		OBS	T0208	0649	35044	2754			14805								
		STD	0250	0616	3503	2758	0005572	0168	14799								
		STD	0300	0580	3502	2761	0005259	0195	14792								
		STD	0400	0521	3500	2767	0004807	0245	14785								
193		OBS	T0413	0515	34998	2768			14784								
		STD	0500	0481	3500	2772	0004473	0292	14785								
193		OBS	0515	0475	34995	2772			14785								
		STD	0600	0437	3496	2774	0004330	0336	14783								
193		OBS	T0617	0430	34959	2774			14782								
		STD	0700	0415	3495	2775	0004248	0379	14790								
		STD	0800	0398	3494	2776	0004220	0421	14799								
		STD	0900	0384	3493	2777	0004221	0463	14810								
		STD	1000	0372	3493	2778	0004168	0505	14822								
193		OBS	T1030	0369	34927	2778			14825								
		STD	1100	0366	3493	2779	0004183	0547	14836								
		STD	1200	0362	3493	2779	0004216	0589	14851								
		STD	1300	0358	3493	2780	0004247	0631	14866								
		STD	1400	0354	3494	2781	0004203	0673	14881								
		STD	1500	0349	3495	2782	0004155	0715	14896								
193		OBS	T1577	0346	34955	2783			14908								

NODC REF ID NO.: QUAD NO.	CRUISE NUMBER	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NUMBER	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	SMPL'S	WAVE OBSERVATIONS: DIR	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD: TYPE	CLOUD: AMT		NODC STATION NUMBER
311081	CK	5252 N		03513 W	184	25	06	13	164	1967	C12	020	2377	1	26	3	2		X1	1	5		0020

* NOTE: WHEN USING TYPLATE FOR READING ELECTRONICALLY OBSERVED SERIAL DATA (OPTIONAL) READINGS PARALLED BY ASTERISKS SHOULD BE THEY APPEAR

°DT	°S‰	WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMPERATURE °C: DRY BULB	AIR TEMPERATURE °C: WET BULB	VIS. CODE	NUMBER OBS. LEVELS	SPECIAL OBSERVATIONS
				12	522	061	089	078	7	13	

CAST — TIME DURATION — HR 1/10	CAST — TIME DURATION — MIN	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S °‰	SIGMA–T	SPECIFIC VOLUME ANOMALY – 10^7	$\Sigma\Delta D$ DYN. M. $\Sigma 10^3$	COMPUTED SOUND VELOCITY m/sec	O_2 ml/l	AMBIENT LIGHT: PO4 P µg-at/l	AMBIENT LIGHT: TOTAL P µg-at/l	AMBIENT LIGHT: NO3–N µg-at/l	AMBIENT LIGHT: NO2–N µg-at/l	AMBIENT LIGHT: SiO4–Si µg-at/l	MEASURED SOUND VELOCITY m/sec	pH
			STD	0000	0885	3493	2711	0009670	0000	14861								
164			OBS	0000	0885	34928	2711			14861								
			STD	0010	0885	3493	2710	0009708	0009	14862								
164			OBS	0011	0885	34926	2710			14862								
			STD	0020	0879	3493	2711	0009628	0019	14861								
			STD	0030	0872	3493	2713	0009539	0028	14860								
164			OBS	0031	0871	34927	2713			14860								
164			OBS	0049	0786	34942	2727			14831								
			STD	0050	0782	3494	2727	0008160	0046	14830								
164			OBS	0074	0720	34945	2737			14810								
			STD	0075	0720	3495	2737	0007292	0066	14810								
164			OBS	0098	0707	34971	2741			14809								
			STD	0100	0704	3497	2741	0006951	0083	14808								
			STD	0125	0677	3497	2745	0006597	0100	14802								
164			OBS	0146	0660	34976	2748			14798								
			STD	0150	0659	3498	2748	0006369	0116	14799								
164			OBS	T0195	0645	35002	2752			14801								
			STD	0200	0644	3500	2752	0006079	0148	14801								
			STD	0250	0631	3500	2753	0006012	0178	14804								
			STD	0300	0614	3499	2755	0005835	0208	14806								
164			OBS	0393	0574	34985	2759			14805								
			STD	0400	0570	3499	2760	0005513	0265	14804								
164			OBS	0493	0518	35002	2768			14799								
			STD	0500	0514	3500	2768	0004847	0316	14798								
164			OBS	T0595	0465	34975	2772			14794								
			STD	0600	0463	3497	2772	0004539	0363	14794								
			STD	0700	0428	3495	2774	0004366	0408	14795								
			STD	0800	0401	3494	2776	0004245	0451	14800								
164			OBS	0808	0399	34940	2776			14801								
			STD	0900	0382	3494	2778	0004155	0493	14809								
			STD	1000	0371	3493	2778	0004147	0534	14821								
164			OBS	T1025	0370	34931	2778			14825								

Table II.—Continued

REFERENCE: COUNTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DRIFT INDICTN	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT.	WAVE OBSERVATIONS: PER.	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT.		NODC STATION NUMBER
311	081	CK	5244 N	03520 W		184	25	06	14	193	1967	C12	021	3201	16	30	2	4		X2	6	8		0021

WATER: COLOR CODE	WATER: TRANS. m/l	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP °C: DRY BULB	AIR TEMP °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		30	S10	953	106	094	7	14	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta D$ DYN. M x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	STD
		STD	0000	0883	3488	2707	0009971	0000	14859								
193		OBS	0000	0883	34883	2707			14859								
		STD	0010	0883	3489	2708	0009946	0010	14861								
193		OBS	0011	0883	34890	2708			14861								
		STD	0020	0831	3491	2718	0009036	0019	14843								
		STD	0030	0787	3492	2725	0008346	0028	14828								
193		OBS	0034	0774	34928	2728			14824								
		STD	0050	0748	3494	2732	0007686	0044	14817								
193		OBS	0054	0743	34941	2733			14815								
		STD	0075	0734	3498	2738	0007239	0063	14816								
193		OBS	0081	0727	34986	2739			14814								
		STD	0100	0687	3498	2744	0006614	0080	14802								
193		OBS	0108	0674	34983	2746			14798								
		STD	0125	0662	3499	2748	0006279	0096	14796								
		STD	0150	0651	3501	2751	0006025	0112	14796								
193		OBS	0162	0647	35013	2752			14796								
		STD	0200	0648	3503	2753	0005919	0142	14803								
193		OBS	T0217	0649	35042	2754			14807								
		STD	0250	0628	3503	2756	0005705	0171	14804								
		STD	0300	0598	3502	2759	0005502	0199	14800								
		STD	0400	0547	3499	2763	0005202	0252	14795								
193		OBS	0430	0534	34981	2764			14795								
		STD	0500	0512	3500	2768	0004820	0302	14798								
193		OBS	0536	0497	35004	2770			14797								
		STD	0600	0457	3498	2773	0004417	0348	14791								
193		OBS	T0642	0435	34965	2774			14789								
		STD	0700	0419	3495	2775	0004295	0392	14792								
		STD	0800	0396	3494	2776	0004196	0434	14798								
193		OBS	0859	0385	34933	2777			14804								
		STD	0900	0381	3493	2777	0004164	0476	14809								
		STD	1000	0372	3493	2778	0004138	0518	14822								
193		OBS	T1076	0366	34934	2779			14832								
		STD	1100	0364	3494	2779	0004114	0559	14835								
		STD	1200	0356	3494	2781	0004049	0600	14848								
		STD	1300	0349	3495	2782	0003993	0640	14862								
		STD	1400	0343	3496	2783	0003947	0680	14877								
		STD	1500	0337	3496	2784	0003898	0719	14891								
193		OBS	T1630	0330	34973	2786			14910								

TABLE III.—Observed and interpolated oceanographic data from stations taken by USCGC MENDOTA, at Ocean Station CHARLIE, 9 July—1 August 1967, prepared from NODC Listing No. 31–1138.

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DUPLICATE	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT): MO	DAY	HR.1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS: DIR.	HGT.	PER.	SEA	WEATHER CODE	CLOUD CODES: TYP.	CLOUD CODES: AMT.	NODC STATION NUMBER
311138		ME	52465N	036017W		184	26	07	09	194	1967	C13	001	3658	15	33	3				6	6	0001

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP °C: DRY BULB	AIR TEMP °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		19	S03	240	100	094	7	14	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^8	$\Sigma\Delta D$ DYN. M x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	NCC
		STD	0000	1017	3488	2685	0012084	0000	14909								
194		OBS	0000	1017	34883	2685			14909								
		STD	0010	0984	3488	2690	0011606	0012	14898								
194		OBS	0010	0984	34878	2690			14898								
		STD	0020	0972	3488	2692	0011436	0023	14895								
		STD	0030	0960	3488	2694	0011260	0035	14893								
194		OBS	0031	0959	34879	2695			14892								
		STD	0050	0814	3496	2724	0008489	0054	14842								
194		OBS	0050	0814	34958	2724			14842								
		STD	0075	0712	3501	2743	0006693	0073	14808								
194		OBS	0075	0712	35013	2743			14808								
		STD	0100	0695	3503	2747	0006379	0090	14805								
194		OBS	0100	0695	35030	2747			14805								
		STD	0125	0691	3505	2749	0006217	0106	14808								
		STD	0150	0686	3506	2751	0006109	0121	14810								
194		OBS	0150	0686	35061	2751			14810								
		STD	0200	0671	3507	2753	0005962	0151	14813								
194		OBS	0201	0671	35065	2753			14813								
		STD	0250	0670	3506	2753	0006060	0181	14821								
		STD	0300	0660	3506	2754	0006004	0211	14825								
		STD	0400	0607	3503	2759	0005671	0270	14820								
194		OBS	T0403	0605	35028	2759			14820								
		STD	0500	0512	3498	2767	0004968	0323	14797								
194		OBS	0504	0509	34979	2767			14797								
		STD	0600	0466	3497	2771	0004599	0371	14795								
194		OBS	T0607	0463	34966	2771			14795								
		STD	0700	0427	3495	2774	0004426	0416	14795								
		STD	0800	0398	3492	2775	0004346	0460	14799								
194		OBS	0811	0396	34920	2775			14800								
		STD	0900	0387	3492	2776	0004316	0503	14811								
		STD	1000	0378	3492	2777	0004283	0546	14824								
194		OBS	T1019	0376	34924	2777			14826								
		STD	1100	0369	3493	2778	0004247	0589	14837								
		STD	1200	0361	3493	2779	0004220	0631	14850								
		STD	1300	0353	3493	2780	0004182	0673	14864								
		STD	1400	0346	3493	2781	0004161	0715	14878								
		STD	1500	0340	3494	2782	0004149	0756	14892								
194		OBS	T1522	0339	34936	2782			14895								

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DUPLICATE	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT): MO	DAY	HR.1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS: DIR.	HGT.	PER.	SEA	WEATHER CODE	CLOUD CODES: TYP.	CLOUD CODES: AMT.	NODC STATION NUMBER
311138		ME	52354N	036007W		184	26	07	10	102	1967	C13	002	3146	15	34	3	4		X1	3	6	0002

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP °C: DRY BULB	AIR TEMP °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		16	S03	240	117	106	7	13	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^8	$\Sigma\Delta D$ DYN. M x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	NCC
		STD	0000	1028	3474	2672	0013359	0000	14911								
102		OBS	0000	1028	34735	2672			14911								
		STD	0010	0984	3473	2679	0012715	0013	14896								
102		OBS	0010	0984	34728	2679			14896								
		STD	0020	0965	3474	2683	0012366	0026	14891								
		STD	0030	0934	3475	2688	0011831	0038	14881								
102		OBS	0032	0927	34748	2690			14879								
		STD	0050	0833	3478	2707	0010087	0060	14847								
102		OBS	0054	0814	34787	2711			14841								
		STD	0075	0723	3480	2725	0008457	0083	14809								
		STD	0100	0641	3481	2737	0007340	0103	14781								
102		OBS	0105	0628	34808	2739			14777								
		STD	0125	0600	3482	2743	0006755	0120	14769								
		STD	0150	0572	3484	2748	0006296	0136	14762								
102		OBS	0159	0564	34842	2749			14760								
		STD	0200	0540	3485	2753	0005939	0167	14757								
102		OBS	0213	0533	34846	2754			14757								
		STD	0250	0515	3485	2756	0005668	0196	14755								
		STD	0300	0496	3485	2758	0005506	0224	14756								
		STD	0400	0472	3489	2764	0005043	0277	14763								
102		OBS	T0420	0470	34896	2765			14766								
		STD	0500	0470	3495	2769	0004685	0325	14780								
102		OBS	0509	0470	34958	2770			14781								
		STD	0600	0439	3495	2773	0004420	0371	14783								
102		OBS	T0612	0435	34950	2773			14784								
		STD	0700	0407	3493	2774	0004303	0415	14786								
		STD	0800	0384	3491	2775	0004279	0457	14793								
102		OBS	0815	0381	34908	2775			14794								
		STD	0900	0372	3491	2776	0004266	0500	14805								
		STD	1000	0363	3490	2777	0004268	0543	14817								
102		OBS	T1022	0361	34901	2777			14820								
		STD	1100	0355	3491	2778	0004227	0585	14831								
		STD	1200	0350	3491	2779	0004205	0627	14845								
		STD	1300	0346	3492	2780	0004192	0669	14861								
		STD	1400	0343	3492	2781	0004189	0711	14876								
		STD	1500	0343	3493	2781	0004223	0753	14893								
102		OBS	T1523	0343	34931	2781			14897								

TABLE III.—Continued

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPLICATE	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT	NODC STATION NUMBER
31	1138	ME	52341N	035320W		18	4	07	11	130	1967	C13	003	2780	14	25	3	2		X1	3	6	0003

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP °C: DRY BULB	AIR TEMP °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		17	S11	261	119	111	7	14	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10⁸	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_4-Si µg-at/l	pH	SCC
		STD	0000	1049	3484	2676	0012925	0000	14920								
130		OBS	0000	1049	34841	2676			14920								
		STD	0010	0994	3484	2686	0012063	0012	14901								
130		OBS	0010	0994	34838	2686			14901								
		STD	0020	0958	3485	2693	0011419	0024	14890								
130		OBS	0027	0926	34868	2699			14879								
		STD	0030	0908	3488	2703	0010435	0035	14873								
130		OBS	0043	0834	34911	2717			14848								
		STD	0050	0796	3492	2724	0008511	0054	14835								
130		OBS	0065	0732	34939	2735			14813								
		STD	0075	0707	3495	2739	0007095	0074	14805								
130		OBS	0085	0685	34962	2743			14798								
		STD	0100	0657	3494	2745	0006547	0091	14789								
		STD	0125	0628	3493	2748	0006287	0107	14782								
130		OBS	0129	0625	34927	2748			14781								
		STD	0150	0628	3495	2750	0006175	0122	14786								
130		OBS	T0175	0632	34967	2751			14792								
		STD	0200	0633	3498	2751	0006091	0153	14797								
		STD	0250	0635	3501	2753	0005992	0183	14806								
		STD	0300	0637	3503	2755	0005894	0213	14816								
130		OBS	T0341	0639	35056	2757			14823								
		STD	0400	0587	3501	2760	0005560	0270	14812								
130		OBS	0426	0568	35000	2761			14808								
		STD	0500	0527	3500	2766	0005005	0323	14804								
130		OBS	T0510	0522	35000	2767			14803								
		STD	0600	0476	3497	2770	0004720	0372	14799								
130		OBS	0682	0443	34956	2773			14799								
		STD	0700	0438	3495	2773	0004519	0418	14799								
		STD	0800	0412	3494	2775	0004384	0462	14805								
130		OBS	T0857	0400	34935	2776			14810								
		STD	0900	0392	3494	2777	0004271	0506	14813								
		STD	1000	0375	3494	2779	0004137	0548	14823								
		STD	1100	0363	3494	2780	0004057	0589	14835								
		STD	1200	0356	3495	2781	0004034	0629	14848								
		STD	1300	0353	3495	2781	0004057	0670	14864								
130		OBS	T1353	0353	34949	2782			14873								

CODE REF ID NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPLICATE	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT): MONTH	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NUMBER	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. SAMPLE DEP	WAVE OBSERVATIONS: DIR	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA ABT	WEATHER CODE	CLOUD: TYPE	CLOUD: AMT	NODC STATION NUMBER
31 1138	ME	52587N	035336W		18	4	07	12	210	1967	C13	004	2698	1	14	3	4		X4	6	8	0004

°DT: RATED COLOR	°S‰: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mb)	AIR TEMPERATURE °C: DRY BULB	AIR TEMPERATURE °C: WET BULB	VIS. CODE	NUMBER OBS. LEVELS	SPECIAL OBSERVATIONS
		30	S06	098	102	101	6	14	

CAST — TIME DURATION: HR BEGIN/END	CAST — TIME DURATION: CAST NO.	CARD TYPE	DEPTH (m)	T °C	S °/₀₀	SIGMA-T	SPECIFIC VOLUME ANOMALY - 2 x 10⁸	Δ&D DYN. DIST. Σ 10³	COMPUTED SOUND VELOCITY m/sec	O_2 ml/l	*AMBIENT LIGHT: PO_4-P µg-at/l	*AMBIENT LIGHT: TOTAL-P µg-at/l	*AMBIENT LIGHT: NO_3-N µg-at/l	*AMBIENT LIGHT: NO_2-N µg-at/l	*MEASURED SOUND VELOCITY: Δc O_2 m/sec	*MEASURED SOUND VELOCITY: pH
		STD	0000	0977	3487	2691	0011533	0000	14894							
210		OBS	0000	0977	34871	2691			14894							
		STD	0010	0965	3487	2693	0011346	0011	14891							
210		OBS	0010	0965	34873	2693			14891							
		STD	0020	0938	3488	2698	0010860	0022	14883							
		STD	0030	0901	3490	2705	0010228	0033	14871							
210		OBS	0032	0893	34898	2707			14868							
		STD	0050	0796	3493	2724	0008477	0051	14835							
210		OBS	0052	0787	34927	2726			14832							
		STD	0075	0706	3492	2737	0007317	0071	14804							
210		OBS	0077	0700	34918	2737			14802							
		STD	0100	0631	3487	2743	0006709	0089	14778							
210		OBS	0102	0627	34872	2744			14777							
		STD	0125	0648	3494	2746	0006499	0105	14790							
		STD	0150	0659	3498	2748	0006342	0121	14799							
210		OBS	0154	0659	34986	2748			14799							
		STD	0200	0636	3498	2751	0006138	0152	14798							
210		OBS	T0209	0632	34978	2751			14798							
		STD	0250	0614	3498	2754	0005949	0183	14797							
		STD	0300	0593	3498	2756	0005764	0212	14797							
		STD	0400	0554	3497	2761	0005418	0268	14798							
210		OBS	T0408	0551	34973	2761			14798							
		STD	0500	0518	3498	2766	0005031	0320	14800							
210		OBS	0509	0514	34982	2767			14800							
		STD	0600	0473	3497	2770	0004686	0369	14797							
210		OBS	T0611	0468	34968	2771			14797							
		STD	0700	0432	3494	2773	0004498	0415	14797							
		STD	0900	0401	3492	2775	0004379	0459	14800							
210		OBS	0816	0397	34921	2775			14801							
		STD	0900	0384	3491	2775	0004363	0503	14810							
		STD	1000	0370	3490	2776	0004349	0546	14820							
210		OBS	T1019	0368	34902	2776			14823							
		STD	1100	0363	3491	2777	0004301	0589	14834							
		STD	1200	0358	3492	2779	0004244	0632	14849							
		STD	1300	0352	3493	2780	0004185	0674	14864							
		STD	1400	0347	3494	2781	0004123	0716	14878							
		STD	1500	0341	3495	2783	0004058	0757	14893							
210		OBS	T1523	0340	34951	2783			14896							

TABLE III.—Continued

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	QUAD SQUARE	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT		NODC STATION NUMBER
31	1138	ME	52588N	035378W		184	25	07	13	129	1967	C13	005	2688	15	25	2	3		X1	3	1		0005

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP °C: DRY BULB	AIR TEMP °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		21	S02	102	110	100	7	14	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-810⁷	Σ Δ D DYN. M. Σ 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	QUAL CODE
		STD	0000	1015	3487	2685	0012125	0000	14908								
129		OBS	0000	1015	34873	2685			14908								
		STD	0010	0970	3487	2692	0011433	0012	14893								
129		OBS	0010	0970	34871	2692			14893								
		STD	0020	0953	3488	2696	0011117	0023	14888								
		STD	0030	0926	3488	2700	0010714	0034	14880								
129		OBS	0031	0923	34884	2701			14879								
		STD	0050	0843	3491	2716	0009277	0054	14853								
129		OBS	0051	0839	34910	2716			14851								
		STD	0075	0724	3493	2735	0007511	0075	14811								
129		OBS	0077	0717	34926	2736			14809								
		STD	0100	0663	3489	2741	0006968	0093	14791								
129		OBS	0102	0660	34891	2741			14790								
		STD	0125	0661	3494	2745	0006643	0110	14795								
		STD	0150	0663	3498	2747	0006403	0126	14800								
129		OBS	0153	0663	34987	2748			14801								
		STD	0200	0657	3500	2750	0006255	0158	14806								
129		OBS	T0209	0655	35006	2751			14807								
		STD	0250	0635	3500	2753	0006034	0189	14806								
		STD	0300	0610	3500	2756	0005820	0218	14804								
		STD	0400	0560	3498	2761	0005409	0275	14800								
129		OBS	T0411	0554	34983	2762			14800								
		STD	0500	0507	3498	2767	0004899	0326	14795								
129		OBS	0511	0502	34981	2768			14795								
		STD	0600	0465	3497	2771	0004587	0373	14794								
129		OBS	T0612	0461	34968	2772			14795								
		STD	0700	0432	3495	2774	0004433	0419	14797								
		STD	0800	0406	3493	2775	0004358	0463	14803								
129		OBS	0818	0402	34931	2775			14804								
		STD	0900	0389	3493	2776	0004302	0506	14812								
		STD	1000	0376	3492	2777	0004282	0549	14823								
129		OBS	T1022	0373	34920	2777			14826								
		STD	1100	0364	3493	2779	0004195	0591	14835								
		STD	1200	0355	3493	2780	0004110	0633	14848								
		STD	1300	0348	3494	2781	0004054	0674	14862								
		STD	1400	0344	3495	2782	0004033	0714	14877								
		STD	1500	0341	3495	2783	0004022	0754	14893								
129		OBS	T1534	0341	34956	2783			14898								

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	QUAD SQUARE	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT		NODC STATION NUMBER
31	1138	ME	52537N	035407W		184	25	07	14	128	1967	C13	006	2597	18	08	2	3		X4	X	9		0006

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP °C: DRY BULB	AIR TEMP °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		05	S13	083	111	111	2	14	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-810⁷	Σ Δ D DYN. M. Σ 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	QUAL CODE
		STD	0000	1013	3486	2684	0012174	0000	14907								
128		OBS	0000	1013	34862	2684			14907								
		STD	0010	1009	3486	2685	0012138	0012	14907								
128		OBS	0013	1006	34860	2685			14906								
		STD	0020	0989	3486	2688	0011826	0024	14902								
		STD	0030	0966	3487	2693	0011437	0036	14895								
128		OBS	0040	0942	34871	2697			14888								
		STD	0050	0841	3489	2715	0009389	0057	14852								
128		OBS	0061	0756	34903	2728			14821								
		STD	0075	0702	3490	2736	0007377	0078	14802								
128		OBS	0092	0663	34904	2741			14790								
		STD	0100	0664	3494	2744	0006636	0095	14792								
128		OBS	0123	0666	34999	2749			14797								
		STD	0125	0663	3499	2748	0006292	0111	14796								
		STD	0150	0634	3495	2749	0006252	0127	14788								
128		OBS	0184	0610	34929	2750			14784								
		STD	0200	0613	3494	2751	0006131	0158	14788								
128		OBS	T0246	0615	34974	2753			14797								
		STD	0250	0613	3497	2754	0005950	0188	14797								
		STD	0300	0587	3498	2757	0005674	0217	14795								
		STD	0400	0541	3498	2763	0005209	0272	14793								
128		OBS	T0484	0506	34981	2767			14792								
		STD	0500	0500	3498	2768	0004822	0322	14792								
128		OBS	0598	0465	34976	2772			14794								
		STD	0600	0464	3498	2772	0004531	0368	14794								
		STD	0700	0425	3495	2774	0004365	0413	14794								
128		OBS	T0715	0420	34946	2774			14794								
		STD	0800	0403	3494	2776	0004293	0456	14801								
		STD	0900	0387	3493	2776	0004271	0499	14811								
128		OBS	0955	0379	34922	2777			14817								
		STD	1000	0374	3493	2777	0004228	0542	14822								
		STD	1100	0365	3493	2779	0004162	0584	14835								
128		OBS	T1190	0357	34937	2780			14847								
		STD	1200	0356	3494	2781	0004071	0625	14848								
		STD	1300	0349	3494	2781	0004067	0665	14862								
		STD	1400	0342	3495	2783	0003986	0706	14876								
		STD	1500	0337	3496	2784	0003928	0745	14891								
		STD	1750	0327	3497	2786	0003914	0843	14929								
128		OBS	T1795	0326	34975	2786			14937								

TABLE III.—Continued

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPLICATE	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYP	CLOUD CODES: AMT		NODC STATION NUMBER
31	1138	ME	52380N	036127W		184	26	07	15	136	1967	C13	007	3347	14	02	1	3		X2	7	8		0007

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		33	S12	173	111	108	6	14	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA–T	SPECIFIC VOLUME ANOMALY–10^7	Σ Δ D DYN. M. Σ 10^3	SOUND VELOCITY	O_2 ml/l	PO_4–P µg-at/l	TOTAL–P µg-at/l	NO_3–N µg-at/l	NO_2–N µg-at/l	SiO_4–Si µg-at/l	pH	NODC
		STD	0000	1049	3476	2670	0013501	0000	14919								
	136	OBS	0000	1049	34763	2670			14919								
	136	OBS	0009	1046	34737	2669			14919								
		STD	0010	1043	3474	2669	0013593	0014	14918								
		STD	0020	1012	3478	2678	0012807	0027	14909								
	136	OBS	0029	0978	34818	2687			14898								
		STD	0030	0974	3482	2688	0011917	0039	14897								
	136	OBS	0047	0894	34914	2708			14871								
		STD	0050	0869	3493	2713	0009510	0061	14863								
	136	OBS	0070	0746	34994	2737			14820								
		STD	0075	0732	3500	2739	0007063	0081	14815								
	136	OBS	0093	0695	35012	2746			14804								
		STD	0100	0692	3502	2747	0006413	0098	14804								
		STD	0125	0683	3504	2749	0006185	0114	14805								
	136	OBS	0139	0679	35047	2751			14806								
		STD	0150	0678	3506	2752	0006013	0129	14807								
	136	OBS	0187	0676	35075	2753			14813								
		STD	0200	0655	3505	2754	0005857	0159	14806								
		STD	0250	0586	3495	2755	0005786	0188	14786								
		STD	0300	0533	3490	2758	0005572	0216	14772								
	136	OBS	T0372	0486	34878	2762			14764								
		STD	0400	0485	3491	2764	0005046	0269	14769								
	136	OBS	0460	0474	34952	2769			14775								
		STD	0500	0455	3494	2770	0004583	0318	14773								
	136	OBS	T0552	0434	34932	2772			14773								
		STD	0600	0426	3493	2772	0004425	0363	14778								
		STD	0700	0408	3492	2774	0004389	0407	14787								
	136	OBS	0743	0401	34918	2774			14791								
		STD	0800	0390	3491	2775	0004349	0450	14795								
		STD	0900	0373	3491	2776	0004240	0493	14805								
	136	OBS	T0924	0370	34908	2777			14808								
		STD	1000	0367	3491	2777	0004257	0536	14819								
		STD	1100	0363	3491	2777	0004296	0578	14834								
		STD	1200	0359	3491	2778	0004332	0622	14849								
		STD	1300	0355	3492	2779	0004292	0665	14865								
		STD	1400	0352	3493	2780	0004251	0707	14880								
	136	OBS	T1438	0350	34931	2780			14886								

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPLICATE	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYP	CLOUD CODES: AMT		NODC STATION NUMBER
31	1138	ME	52317N	035491W		184	25	07	16	126	1967	C13	008	3201	15	02	5	5		X4	7	8		0008

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		34	S08	179	106	106	5	14	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA–T	SPECIFIC VOLUME ANOMALY–10^7	Σ Δ D DYN. M. Σ 10^3	SOUND VELOCITY	O_2 ml/l	PO_4–P µg-at/l	TOTAL–P µg-at/l	NO_3–N µg-at/l	NO_2–N µg-at/l	SiO_4–Si µg-at/l	pH	NODC
		STD	0000	1055	3483	2674	0013136	0000	14922								
	126	OBS	0000	1055	34826	2674			14922								
		STD	0010	1052	3483	2675	0013101	0013	14922								
	126	OBS	0010	1052	34827	2675			14922								
		STD	0020	1021	3483	2680	0012586	0026	14913								
		STD	0030	0985	3484	2687	0011946	0038	14901								
	126	OBS	0033	0973	34845	2690			14897								
		STD	0050	0897	3489	2706	0010232	0060	14873								
	126	OBS	0052	0888	34897	2708			14870								
		STD	0075	0768	3493	2728	0008121	0083	14828								
	126	OBS	0078	0756	34929	2730			14824								
		STD	0100	0692	3493	2739	0007090	0102	14803								
	126	OBS	0103	0685	34929	2740			14801								
		STD	0125	0652	3492	2744	0006670	0120	14791								
		STD	0150	0630	3492	2747	0006424	0136	14786								
	126	OBS	0154	0628	34919	2747			14786								
		STD	0200	0643	3498	2750	0006220	0168	14801								
	126	OBS	T0206	0644	34984	2750			14802								
		STD	0250	0620	3498	2753	0005973	0198	14800								
		STD	0300		3498	2757	0005739	0227	14798								
		STD	0400	0551	3498	2762	0005341	0283	14797								
	126	OBS	T0403	0550	34978	2762			14797								
		STD	0500	0516	3500	2768	0004881	0334	14799								
	126	OBS	0501	0516	34999	2768			14799								
		STD	0600	0474	3498	2771	0004604	0381	14798								
	126	OBS	T0601	0474	34983	2771			14798								
		STD	0700	0435	3497	2774	0004350	0426	14798								
		STD	0800	0407	3495	2776	0004236	0469	14803								
	126	OBS	0807	0405	34951	2776			14804								
		STD	0900	0393	3495	2777	0004202	0511	14814								
		STD	1000	0381	3494	2778	0004179	0553	14826								
	126	OBS	T1018	0379	34942	2778			14828								
		STD	1100	0370	3495	2780	0004105	0594	14838								
		STD	1200	0360	3495	2781	0004024	0635	14850								
		STD	1300	0352	3496	2782	0003964	0675	14864								
		STD	1400	0344	3496	2784	0003908	0714	14877								
		STD	1500	0338	3497	2785	0003867	0753	14892								
	126	OBS	T1547	0335	34973	2785			14898								

TABLE III.—Continued

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PRD	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT		NODC STATION NUMBER
311138		ME	52442N	035440W	184	25	07	17	163	1967	C13	009	3475	35	06	2	5		X2	7	8		0009

WATER: COLOR CODE	WATER: TRANS. m	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		00	500	179	122	117	6	19	

MESSENGR TIME OF T HR 1/10	CAST NO.	CARD TYPE	DEPTH m	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10⁸	Σ Δ D DYN. M. Σ 10⁴	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	QUAL
		STD	0000	1089	3486	2671	0013432	0000	14934								
	130	OBS	0000	1089	34864	2671			14934								
		STD	0010	1068	3486	2674	0013135	0013	14928								
	130	OBS	0010	1068	34859	2674			14928								
		STD	0020	0998	3484	2685	0012135	0026	14904								
		STD	0030	0932	3484	2696	0011104	0038	14882								
	130	OBS	0031	0926	34836	2697			14880								
		STD	0050	0817	3485	2715	0009334	0058	14842								
	130	OBS	0051	0812	34855	2716			14840								
		STD	0075	0735	3488	2729	0008026	0080	14815								
	130	OBS	0076	0733	34877	2730			14814								
		STD	0100	0705	3495	2739	0007146	0099	14808								
	130	OBS	0101	0704	34948	2739			14808								
		STD	0125	0677	3496	2744	0006700	0116	14801								
		STD	0150	0656	3498	2748	0006314	0132	14798								
	130	OBS	0152	0655	34981	2749			14798								
		STD	0200	0640	3501	2753	0005980	0163	14800								
	130	OBS	0205	0638	35010	2753			14800								
		STD	0250	0628	3501	2754	0005891	0193	14803								
		STD	0300	0611	3501	2756	0005758	0222	14805								
		STD	0400	0563	3500	2762	0005306	0277	14802								
	130	OBS	T0411	0556	35002	2763			14801								
		STD	0500	0490	3498	2769	0004678	0327	14788								
	130	OBS	0511	0484	34981	2770			14788								
		STD	0600	0447	3496	2773	0004447	0373	14787								
	130	OBS	T0613	0443	34956	2773			14787								
		STD	0700	0428	3495	2774	0004401	0417	14795								
		STD	0800	0410	3495	2776	0004287	0460	14804								
	130	OBS	0818	0407	34948	2776			14806								
		STD	0900	0391	3494	2777	0004230	0503	14813								
		STD	1000	0374	3494	2779	0004117	0545	14823								
	130	OBS	T1023	0371	34936	2779			14825								
		STD	1100	0365	3494	2780	0004089	0586	14835								
		STD	1200	0357	3495	2781	0004031	0626	14849								
		STD	1300	0350	3495	2782	0003983	0666	14863								
		STD	1400	0343	3496	2783	0003932	0706	14877								
		STD	1500	0337	3497	2784	0003891	0745	14891								
	130	OBS	T1531	0335	34967	2785			14896								
		STD	1750	0324	3498	2787	0003806	0841	14928								
		STD	2000	0312	3500	2789	0003707	0935	14966								
	163	OBS	T2002	0312	34996	2789			14966								
		STD	2500	0308	3500	2790	0003991	1128	15050								
	163	OBS	T2517	0308	34996	2790			15052								
		STD	3000	0306	3499	2789	0004314	1335	15135								
	163	OBS	T3025	0306	34992	2789			15139								
	163	OBS	T3338	0303	34988	2789			15192								
	163	OBS	3453	0305	34989	2789			15213								

Table III.—Continued

REFERENCE: CTRY CODE	REFERENCE: NO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	QUAD	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYP	CLOUD CODES: AMT		NODC STATION NUMBER
31	1138	ME	52417N	035335W		18	4	07	18	182	1967	C13	010	3612	15	03	2	4		X1	8	2		0010

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		36	S06	210	117	106	7	14	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S °/₀₀	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\frac{1}{2}\Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	
		STD	0000	1143	3484	2659	0014547	0000	14953								
182		OBS	0000	1143	34840	2659			14953								
		STD	0010	1076	3483	2671	0013455	0014	14931								
182		OBS	0010	1076	34834	2671			14931								
		STD	0020	1037	3484	2678	0012777	0027	14919								
		STD	0030	0986	3486	2688	0011837	0039	14902								
182		OBS	0030	0986	34857	2688			14902								
182		OBS	0049	0854	34905	2714			14857								
		STD	0050	0847	3491	2715	0009329	0061	14854								
182		OBS	0074	0723	34917	2734			14811								
		STD	0075	0722	3492	2735	0007521	0082	14810								
182		OBS	0099	0691	34928	2740			14802								
		STD	0100	0690	3493	2740	0007056	0100	14802								
		STD	0125	0669	3495	2744	0006669	0117	14798								
		STD	0150	0649	3495	2747	0006423	0133	14794								
182		OBS	0150	0649	34953	2747			14794								
182		OBS	0199	0614	34926	2750			14788								
		STD	0200	0614	3493	2750	0006218	0165	14788								
		STD	0250	0597	3494	2753	0005999	0196	14790								
		STD	0300	0579	3495	2756	0005767	0225	14791								
		STD	0400	0537	3496	2762	0005301	0280	14791								
182		OBS	T0402	0536	34963	2762			14791								
182		OBS	0498	0488	34974	2769			14787								
		STD	0500	0487	3497	2769	0004709	0330	14787								
182		OBS	T0596	0460	34977	2772			14792								
		STD	0600	0459	3498	2773	0004464	0376	14792								
		STD	0700	0433	3496	2774	0004356	0420	14798								
182		OBS	0797	0411	34951	2776			14804								
		STD	0800	0410	3495	2776	0004287	0464	14804								
		STD	0900	0392	3494	2777	0004242	0506	14813								
182		OBS	T0990	0378	34934	2778			14822								
		STD	1000	0377	3493	2778	0004197	0548	14824								
		STD	1100	0364	3494	2780	0004091	0590	14835								
		STD	1200	0353	3494	2781	0004005	0630	14847								
		STD	1300	0345	3495	2782	0003952	0670	14861								
		STD	1400	0340	3495	2783	0003932	0709	14875								
182		OBS	T1494	0338	34959	2784			14891								

TABLE III.—Continued

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	QUADRANGLE	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR.1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT.	WAVE OBSERVATIONS: PER.	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT	NODC STATION NUMBER
311138	ME	52422N	035465W		184	25	07	19	159	1967	C13	011		3438	15	05	1	5		X1	8	4	0011

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		00	S00	201	131	099	7	14	

MESSENGR TIME OF MR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S °/₀₀	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^5	$\frac{1}{2}\Delta D$ DYN. M. $\times 10^2$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_4-Si µg-at/l	pH	NODC
		STD	0000	1147	3484	2658	0014610	0000	14954								
159		OBS	0000	1147	34841	2658			14954								
		STD	0010	1101	3484	2667	0013853	0014	14940								
159		OBS	0010	1101	34838	2667			14940								
		STD	0020	1054	3485	2676	0012988	0028	14925								
		STD	0030	1005	3486	2685	0012124	0040	14909								
159		OBS	0031	1000	34862	2686			14907								
		STD	0050	0902	3491	2706	0010183	0063	14875								
159		OBS	0051	0897	34909	2707			14873								
		STD	0075	0793	3491	2723	0008603	0086	14838								
159		OBS	0075	0793	34908	2723			14838								
		STD	0100	0718	3497	2739	0007136	0106	14814								
159		OBS	0100	0718	34970	2739			14814								
		STD	0125	0680	3495	2743	0006814	0123	14803								
		STD	0150	0656	3495	2746	0006537	0140	14797								
159		OBS	0151	0655	34946	2746			14797								
		STD	0200	0645	3498	2750	0006274	0172	14802								
159		OBS	T0202	0645	34978	2750			14802								
		STD	0250	0629	3498	2752	0006090	0203	14803								
		STD	0300	0608	3499	2755	0005861	0233	14803								
		STD	0400	0558	3500	2762	0005287	0288	14800								
159		OBS	T0402	0557	34997	2763			14800								
		STD	0500	0495	3498	2768	0004776	0339	14790								
159		OBS	0500	0495	34978	2768			14790								
159		OBS	T0599	0446	34992	2775			14787								
		STD	0600	0446	3499	2775	0004213	0384	14787								
		STD	0700	0430	3497	2775	0004276	0426	14796								
		STD	0800	0413	3495	2775	0004322	0469	14806								
159		OBS	0800	0413	34950	2775			14806								
		STD	0900	0394	3495	2777	0004228	0512	14814								
159		OBS	T0998	0378	34940	2778			14824								
		STD	1000	0378	3494	2778	0004165	0554	14824								
		STD	1100	0364	3495	2780	0004047	0595	14835								
		STD	1200	0353	3495	2782	0003954	0635	14847								
		STD	1300	0346	3496	2783	0003912	0674	14861								
		STD	1400	0340	3496	2784	0003873	0713	14876								
159		OBS	T1499	0338	34967	2784			14891								

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	QUADRANGLE	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR.1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT.	WAVE OBSERVATIONS: PER.	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT	NODC STATION NUMBER
311138	ME	52313N	035357W		184	25	07	20	127	1967	C13	012		2889	15	23	1	4		X1	6	7	0012

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		26	S08	250	118	096	7	14	

MESSENGR TIME OF MR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S °/₀₀	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^5	$\frac{1}{2}\Delta D$ DYN. M. $\times 10^2$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_4-Si µg-at/l	pH	NODC
		STD	0000	1166	3485	2655	0014903	0000	14961								
127		OBS	0000	1166	34847	2655			14961								
		STD	0010	1126	3484	2662	0014302	0015	14949								
127		OBS	0010	1126	34836	2662			14949								
		STD	0020	1058	3484	2675	0013129	0028	14926								
		STD	0030	0990	3485	2687	0011953	0041	14903								
127		OBS	0031	0983	34856	2689			14901								
		STD	0050	0852	3491	2714	0009441	0062	14856								
127		OBS	0051	0846	34908	2715			14854								
		STD	0075	0733	3492	2733	0007686	0084	14815								
127		OBS	0077	0726	34919	2734			14812								
		STD	0100	0679	3493	2741	0006910	0102	14798								
127		OBS	0103	0674	34932	2742			14796								
		STD	0125	0653	3494	2746	0006534	0119	14792								
		STD	0150	0634	3494	2748	0006326	0135	14788								
127		OBS	0154	0631	34942	2749			14788								
		STD	0200	0613	3495	2751	0006094	0166	14788								
127		OBS	T0206	0611	34945	2752			14788								
		STD	0250	0601	3496	2754	0005901	0196	14792								
		STD	0300	0586	3498	2758	0005632	0225	14794								
		STD	0400	0546	3499	2763	0005189	0279	14795								
127		OBS	T0410	0541	34992	2764			14794								
		STD	0500	0490	3498	2769	0004700	0328	14788								
127		OBS	0511	0485	34976	2769			14788								
		STD	0600	0457	3497	2772	0004469	0374	14791								
127		OBS	T0610	0454	34972	2773			14791								
		STD	0700	0432	3496	2774	0004374	0418	14797								
		STD	0800	0410	3495	2776	0004287	0462	14804								
127		OBS	0815	0407	34947	2776			14806								
		STD	0900	0392	3494	2777	0004212	0504	14813								
		STD	1000	0377	3494	2778	0004146	0546	14824								
127		OBS	T1018	0375	34940	2779			14826								
		STD	1100	0365	3495	2780	0004059	0587	14836								
		STD	1200	0354	3495	2782	0003958	0627	14848								
		STD	1300	0346	3496	2783	0003890	0666	14861								
		STD	1400	0339	3497	2784	0003839	0705	14875								
		STD	1500	0336	3497	2785	0003827	0743	14891								
127		OBS	T1520	0335	34973	2785			14894								

TABLE III.—Continued

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	QUAD NO.	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR 1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT	NODC STATION NUMBER
311138		ME	52279N	035206W		184	25	07	21	133	1967	C13	013	2926	15	16	1	4		X1	6	6	0013

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		17	S16	179	139	128	7	14	

MESSENGER TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-E10⁸	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₃-N µg-at/l	NO₂-N µg-at/l	SiO₄-Si µg-at/l	pH	QUAL CODE
		STD	0000	1172	3484	2654	0015055	0000	14963								
	133	OBS	0000	1172	34841	2654			14963								
		STD	0010	1075	3483	2671	0013467	0014	14930								
	133	OBS	0010	1075	34830	2671			14930								
		STD	0020	1024	3485	2681	0012488	0027	14914								
		STD	0030	0969	3487	2692	0011467	0039	14896								
	133	OBS	0033	0952	34874	2695			14890								
		STD	0050	0847	3491	2715	0009359	0060	14854								
	133	OBS	0052	0836	34910	2717			14850								
		STD	0075	0724	3493	2735	0007474	0081	14811								
	133	OBS	0078	0715	34932	2736			14808								
		STD	0100	0690	3495	2741	0006937	0099	14802								
	133	OBS	0104	0686	34948	2742			14801								
		STD	0125	0672	3496	2745	0006634	0116	14800								
		STD	0150	0655	3497	2748	0006375	0132	14797								
	133	OBS	0155	0652	34974	2748			14797								
		STD	0200	0624	3496	2751	0006123	0164	14793								
	133	OBS	T0208	0620	34958	2751			14792								
		STD	0250	0610	3496	2753	0005986	0194	14795								
		STD	0300	0596	3497	2756	0005818	0223	14798								
		STD	0400	0558	3499	2762	0005369	0279	14800								
	133	OBS	T0412	0553	34988	2762			14800								
		STD	0500	0508	3498	2767	0004889	0331	14796								
	133	OBS	0513	0502	34983	2768			14795								
		STD	0600	0474	3498	2771	0004607	0378	14798								
	133	OBS	T0613	0470	34982	2772			14799								
		STD	0700	0445	3497	2774	0004425	0423	14803								
		STD	0800	0420	3496	2776	0004302	0467	14809								
	133	OBS	0817	0416	34962	2776			14810								
		STD	0900	0399	3495	2777	0004221	0509	14817								
		STD	1000	0382	3495	2778	0004176	0551	14826								
	133	OBS	T1026	0378	34942	2778			14829								
		STD	1100	0373	3495	2779	0004144	0593	14839								
		STD	1200	0367	3495	2780	0004110	0634	14853								
		STD	1300	0361	3496	2782	0004073	0675	14867								
		STD	1400	0355	3497	2783	0004032	0716	14882								
		STD	1500	0348	3497	2784	0003989	0756	14896								
	133	OBS	T1550	0345	34974	2784			14903								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	QUAD NO.	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR 1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT	NODC STATION NUMBER
311138		ME	52432N	035263W		184	25	07	22	134	1967	C13	014	3567	14	24	5	3		X1	2	7	0014

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		24	S17	203	118	105	7	14	

MESSENGER TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-E10⁸	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₃-N µg-at/l	NO₂-N µg-at/l	SiO₄-Si µg-at/l	pH	QUAL CODE
		STD	0000	1105	3480	2663	0014172	0000	14939								
	134	OBS	0000	1105	34801	2663			14939								
		STD	0010	1104	3480	2663	0014185	0014	14940								
	134	OBS	0010	1104	34800	2663			14940								
		STD	0020	1091	3481	2666	0013911	0028	14937								
	134	OBS	0026	1056	34816	2673			14926								
		STD	0030	1001	3484	2684	0012206	0041	14907								
	134	OBS	0041	0882	34892	2708			14866								
		STD	0050	0841	3491	2716	0009240	0063	14852								
	134	OBS	0062	0789	34942	2726			14834								
		STD	0075	0731	3500	2740	0007049	0083	14815								
	134	OBS	0083	0705	35024	2745			14806								
		STD	0100	0698	3505	2748	0006270	0100	14807								
	134	OBS	0120	0690	35061	2750			14807								
		STD	0125	0688	3506	2750	0006095	0115	14807								
		STD	0150	0679	3506	2752	0006000	0130	14808								
	134	OBS	0159	0676	35064	2752			14808								
		STD	0200	0670	3507	2754	0005910	0160	14812								
		STD	0250	0662	3507	2755	0005846	0189	14818								
		STD	0300	0654	3508	2757	0005773	0219	14823								
	134	OBS	T0325	0650	35083	2757			14825								
		STD	0400	0547	3497	2762	0005350	0274	14795								
	134	OBS	0407	0539	34967	2762			14793								
	134	OBS	T0491	0460	34920	2768			14774								
		STD	0500	0459	3492	2768	0004756	0325	14775								
		STD	0600	0449	3495	2772	0004538	0371	14787								
	134	OBS	0661	0438	34968	2774			14793								
		STD	0700	0426	3496	2775	0004288	0415	14795								
		STD	0800	0399	3495	2777	0004187	0458	14800								
	134	OBS	T0838	0390	34940	2777			14802								
		STD	0900	0385	3494	2778	0004138	0499	14810								
		STD	1000	0376	3495	2779	0004093	0540	14823								
		STD	1100	0367	3495	2780	0004053	0581	14836								
		STD	1200	0358	3495	2781	0003999	0621	14849								
		STD	1300	0349	3496	2782	0003952	0661	14863								
	134	OBS	T1359	0344	34958	2783			14870								

TABLE III.—Continued

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT BLOCK	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR, 1/10	YEAR	ORIGINATOR'S CRUISE NO	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYP	CLOUD CODES AMT		NODC STATION NUMBER
311138		ME	52491N	035359W		184	25	07	23	165	1967	C13	015	3018	12	26	4	4		X4	X	9		0015

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP °C DRY BULB	AIR TEMP °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		22	S15	112	117	117	5	14	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\frac{1}{2}\Delta D$ DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	QUAL
		STD	0000	1049	3487	2679	0012689	0000	14920								
165		OBS	0000	1049	34873	2679			14920								
165		OBS	0005	1047	34875	2679			14920								
		STD	0010	1044	3487	2679	0012655	0013	14920								
		STD	0020	1039	3487	2680	0012604	0025	14920								
165		OBS	0020	1039	34868	2680			14920								
		STD	0030	1003	3486	2686	0012091	0038	14908								
165		OBS	0036	0975	34854	2690			14899								
		STD	0050	0884	3486	2706	0010241	0060	14868								
165		OBS	0055	0854	34865	2711			14857								
165		OBS	0072	0763	34962	2732			14826								
		STD	0075	0756	3497	2734	0007618	0082	14824								
		STD	0100	0710	3501	2743	0006730	0100	14811								
165		OBS	0110	0698	35021	2746			14808								
		STD	0125	0694	3503	2747	0006406	0117	14809								
165		OBS	T0148	0688	35046	2749			14811								
		STD	0150	0688	3505	2749	0006236	0132	14811								
		STD	0200	0680	3506	2751	0006129	0163	14816								
		STD	0250	0673	3507	2753	0006012	0194	14822								
165		OBS	T0291	0667	35082	2755			14826								
		STD	0300	0664	3508	2755	0005909	0224	14827								
165		OBS	0361	0629	35042	2757			14822								
		STD	0400	0581	3500	2760	0005557	0281	14809								
165		OBS	T0439	0541	34977	2763			14799								
		STD	0500	0510	3497	2766	0005018	0334	14796								
165		OBS	0592	0469	34968	2771			14795								
		STD	0600	0466	3497	2771	0004622	0382	14795								
		STD	0700	0432	3496	2774	0004411	0427	14797								
165		OBS	T0745	0419	34950	2775			14799								
		STD	0800	0405	3495	2776	0004228	0470	14802								
		STD	0900	0384	3495	2778	0004080	0512	14810								
		STD	1000	0370	3495	2780	0004011	0552	14821								
		STD	1100	0363	3495	2780	0004013	0592	14835								
		STD	1200	0362	3495	2780	0004092	0633	14851								
165		OBS	T1207	0362	34947	2780			14852								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT BLOCK	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR, 1/10	YEAR	ORIGINATOR'S CRUISE NO	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYP	CLOUD CODES AMT		NODC STATION NUMBER
311138		ME	52458N	035022W		184	25	07	24	134	1967	C13	016	3292	17	21	2	4		X4	X	9		0016

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP °C DRY BULB	AIR TEMP °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		24	S12	129	122	122	1	14	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\frac{1}{2}\Delta D$ DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	QUAL
		STD	0000	1101	3478	2662	0014258	0000	14937								
134		OBS	0000	1101	34780	2662			14937								
		STD	0010	1097	3478	2663	0014212	0014	14938								
134		OBS	0012	1096	34778	2663			14938								
		STD	0020	1085	3479	2666	0013982	0028	14935								
		STD	0030	1071	3480	2669	0013693	0042	14932								
134		OBS	0037	1061	34803	2671			14929								
134		OBS	0049	0789	34925	2725			14832								
		STD	0050	0785	3493	2726	0008317	0064	14831								
		STD	0075	0708	3493	2737	0007249	0084	14805								
134		OBS	0086	0692	34933	2740			14801								
		STD	0100	0700	3497	2742	0006893	0101	14807								
134		OBS	0117	0704	35002	2744			14811								
		STD	0125	0697	3501	2745	0006595	0118	14810								
		STD	0150	0679	3503	2749	0006246	0134	14807								
134		OBS	0167	0672	35045	2751			14808								
		STD	0200	0673	3507	2753	0005950	0165	14814								
134		OBS	T0221	0674	35079	2754			14818								
		STD	0250	0654	3506	2755	0005846	0194	14814								
		STD	0300	0619	3504	2758	0005610	0223	14808								
		STD	0400	0548	3499	2763	0005214	0277	14796								
134		OBS	T0434	0524	34970	2764			14791								
		STD	0500	0468	3493	2768	0004810	0327	14778								
134		OBS	0539	0449	34921	2769			14777								
		STD	0600	0450	3495	2771	0004552	0374	14788								
134		OBS	T0644	0450	34964	2773			14795								
		STD	0700	0432	3495	2773	0004448	0419	14797								
		STD	0800	0405	3494	2775	0004302	0463	14802								
134		OBS	0869	0391	34932	2776			14808								
		STD	0900	0387	3493	2777	0004256	0505	14811								
		STD	1000	0376	3493	2778	0004215	0548	14823								
134		OBS	T1096	0366	34929	2779			14835								
		STD	1100	0366	3493	2779	0004182	0590	14836								
		STD	1200	0356	3493	2780	0004145	0631	14848								
		STD	1300	0347	3493	2781	0004116	0673	14861								
		STD	1400	0339	3494	2782	0004022	0713	14875								
		STD	1500	0332	3494	2783	0004012	0754	14889								
134		OBS	T1690	0320	34958	2785			14916								

TABLE III.—Continued

REFERENCE: COUNTRY CODE	REFERENCE: SHIP CRUISE NO.	SHIP CODE	LATITUDE (1/10)	LONGITUDE (1/10)	DUPLICATE	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR.T/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'M'PL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT		NODC STATION NUMBER
31	1138	ME	52452N	035391W		18	4	07	25	133	1967	C13	017	3521	17	24	2	4		X4	7	8		0017

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OF FORCE	BAROMETER (mbs)	AIR TEMP °C: DRY BULB	AIR TEMP °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		24	S15	115	117	117	5	14	

MESSENGR TIME (HR 1/10 T)	CAST NO	CARD TYPE	DEPTH (m)	t °C	S °/₀₀	SIGMA–T	SPECIFIC VOLUME ANOMALY–10⁸	ΔD DYN. M. × 10³	SOUND VELOCITY	O₂ ml/l	PO₄–P µg-at/l	TOTAL–P µg-at/l	NO₂–N µg-at/l	NO₃–N µg-at/l	SiO₄–Si µg-at/l	pH	ICC
		STD	0000	1078	3481	2669	0013628	0000	14930								
	133	OBS	0000	1078	34812	2669			14930								
		STD	0010	1076	3481	2669	0013662	0014	14930								
	133	OBS	0010	1076	34806	2669			14930								
		STD	0020	1062	3482	2672	0013337	0027	14927								
		STD	0030	1018	3484	2681	0012514	0040	14913								
	133	OBS	0032	1005	34839	2684			14909								
		STD	0050	0816	3486	2716	0009245	0062	14842								
	133	OBS	0054	0785	34868	2721			14831								
		STD	0075	0695	3491	2738	0007231	0082	14800								
	133	OBS	0080	0681	34911	2740			14795								
		STD	0100	0661	3492	2743	0006778	0100	14790								
	133	OBS	0107	0654	34918	2744			14789								
		STD	0125	0635	3492	2746	0006473	0117	14784								
		STD	0150	0616	3492	2749	0006275	0132	14781								
	133	OBS	0161	0610	34915	2749			14780								
		STD	0200	0609	3494	2751	0006080	0163	14787								
	133	OBS	T0215	0608	34945	2752			14789								
		STD	0250	0594	3495	2754	0005887	0193	14789								
		STD	0300	0575	3495	2757	0005717	0222	14789								
		STD	0400	0540	3496	2762	0005338	0278	14792								
	133	OBS	T0432	0530	34963	2763			14793								
		STD	0500	0511	3498	2767	0004956	0329	14797								
	133	OBS	0541	0497	34986	2769			14798								
		STD	0600	0472	3498	2771	0004597	0377	14797								
	133	OBS	T0652	0453	34968	2772			14798								
		STD	0700	0438	3496	2774	0004445	0422	14800								
		STD	0800	0411	3494	2775	0004373	0466	14805								
	133	OBS	0883	0393	34937	2776			14811								
		STD	0900	0391	3494	2777	0004230	0509	14813								
		STD	1000	0378	3494	2778	0004165	0551	14824								
		STD	1100	0367	3494	2779	0004120	0592	14836								
	133	OBS	T1122	0365	34944	2780			14839								
		STD	1200	0357	3495	2781	0004009	0633	14849								
		STD	1300	0348	3495	2782	0003981	0673	14862								
		STD	1400	0340	3496	2784	0003888	0712	14876								
		STD	1500	0334	3496	2784	0003890	0751	14890								
	133	OBS	T1749	0322	34977	2787			14927								

NODC SEQ. & SEL. COUNTRY CODE	NODC SEQ. & SEL. CRUISE NUMBER	SHIP CODE	LATITUDE (1/10)	LONGITUDE (1/10)	DUPLICATE	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): DEPTH	STATION TIME (GMT): DAY	STATION TIME (GMT): HR. T/10	YEAR	ORIGINATOR'S: CRUISE NUMBER	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. SMPL. DEP.	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	* WIND/CLOUD: TYPE	* WIND/CLOUD: AMT		NODC STATION NUMBER
31	1139	ME	52312N	035268W		18	4	25	07	26	137	1967	C13	018	3018	1	34	2	4		X1	4	5		0018

* NOTE: WHEN WIND TEMPLATE FOR PLACING ELECTRONICALLY OBSERVED SEAL DATA STD USE HEADING BARRED BY ASTERISKS, SINCE THEY APPEAR.

°DT COLOR	°S₀ TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER mb	AIR TEMPERATURE °C: DRY BULB	AIR TEMPERATURE °C: WET BULB	VIS. CODE	NUMBER OBS. LEVELS	SPECIAL OBSERVATIONS
		29	S03	173	106	082	8	14	

CAST TIME and DURATION (HR DEGREE TIME HR. 1/10 T)	CAST NO	CARD TYPE	DEPTH m	t °C	S °/₀₀	SIGMA–T	SPECIFIC VOLUME ANOMALY 10⁸	DYN. M. × 10³	COMPUTED SOUND VELOCITY m/sec	O₂ ml/l	* AMBIENT LIGHT: PO₄–P µ-gram-at/l	* AMBIENT LIGHT: TOTAL–P µ-gram-at/l	* AMBIENT LIGHT: NO_2–N µ-gram-at/l	* AMBIENT LIGHT: NO_3–N µ-gram-at/l	* AMBIENT LIGHT: SiO_4–Si µ-gram-at/l	* MEASURED SOUND VELOCITY m/sec	pH
		STD	0000	1132	3483	2660	0014445	0000	14949								
	137	OBS	0000	1132	34828	2660			14949								
		STD	0010	1111	3483	2664	0014098	0014	14943								
	137	OBS	0010	1111	34829	2664			14943								
		STD	0020	1101	3483	2665	0013941	0028	14941								
		STD	0030	1064	3484	2674	0013747	0041	14930								
	137	OBS	0030	1064	34841	2674			14930								
		STD	0050	0906	3489	2704	0010377	0065	14876								
	137	OBS	0050	0906	34890	2704			14876								
		STD	0075	0772	3491	2727	0006275	0088	14830								
	137	OBS	0075	0772	34912	2727			14830								
		STD	0100	0709	3492	2737	0007367	0108	14809								
	137	OBS	0100	0708	34921	2737			14809								
		STD	0125	0675	3494	2742	0006869	0126	14800								
		STD	0150	0646	3494	2747	0006464	0142	14793								
	137	OBS	0152	0644	34943	2747			14793								
		STD	0200	0603	3493	2751	0006106	0174	14784								
	137	OBS	0202	0602	34927	2751			14784								
		STD	0250	0592	3495	2754	0005873	0204	14788								
		STD	0300	0579	3497	2757	0005646	0233	14791								
		STD	0400	0542	3498	2763	0005191	0287	14793								
	137	OBS	T0405	0540	34984	2764			14793								
		STD	0500	0493	3498	2769	0004760	0336	14789								
	137	OBS	0504	0491	34977	2769			14789								
		STD	0600	0455	3497	2772	0004500	0383	14790								
	137	OBS	T0607	0454	34965	2772			14790								
		STD	0700	0431	3495	2774	0004397	0427	14797								
		STD	0800	0410	3495	2775	0004316	0471	14804								
	137	OBS	0804	0409	34946	2776			14805								
		STD	0900	0392	3494	2777	0004247	0514	14813								
		STD	1000	0376	3493	2778	0004186	0556	14823								
	137	OBS	T1008	0375	34934	2778			14824								
		STD	1100	0363	3494	2780	0004079	0597	14835								
		STD	1200	0353	3495	2781	0003991	0637	14847								
		STD	1300	0345	3495	2782	0003943	0677	14861								
		STD	1400	0340	3496	2783	0003917	0716	14876								
		STD	1500	0338	3496	2784	0003924	0756	14892								
	137	OBS	T1509	0338	34963	2784			14893								

TABLE III.—Continued

REFERENCE: CTRY CODE	REFERENCE: ID NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	QUALITY INDICES	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR.1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPLS.	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT.	WAVE OBSERVATIONS: PER.	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT.	NODC STATION NUMBER
311138	ME	52258N	035115W		184	25	07	27	127	1967	C13	019		3109	16	34	1	2		X2	7	8	0019

WATER: COLOR CODE	WATER: TRANS. m/	WIND: DIR.	WIND: SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP °C: DRY BULB	AIR TEMP °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		13	S08	135	117	117	7	14	

MESSENGR TIME & HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S °/₀₀	SIGMA-T	SPECIFIC VOLUME ANOMALY-10⁸	Σ Δ D DYN. M Σ 10³	SOUND VELOC TY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	ICC
		STD	0000	1152	3485	2658	0014662	0000	14956								
	127	OBS	0000	1152	34846	2658			14956								
		STD	0010	1113	3484	2665	0014046	0014	14944								
	127	OBS	0011	1109	34837	2665			14943								
		STD	0020	1082	3484	2670	0013536	0028	14935								
		STD	0030	1032	3485	2680	0012643	0041	14918								
	127	OBS	0032	1020	34855	2682			14915								
		STD	0050	0864	3490	2712	0009657	0064	14860								
	127	OBS	0052	0850	34901	2714			14856								
		STD	0075	0745	3492	2731	0007874	0085	14819								
	127	OBS	0079	0732	34917	2733			14815								
		STD	0100	0688	3491	2738	0007216	0104	14801								
	127	OBS	0105	0679	34902	2739			14798								
		STD	0125	0644	3490	2744	0006730	0122	14788								
		STD	0150	0615	3489	2747	0006442	0138	14780								
	127	OBS	0158	0609	34890	2748			14779								
		STD	0200	0609	3492	2750	0006229	0170	14786								
	127	OBS	0211	0609	34927	2750			14788								
		STD	0250	0590	3494	2754	0005948	0200	14787								
		STD	0300	0567	3495	2757	0005654	0229	14786								
		STD	0400	0526	3497	2764	0005129	0283	14786								
	127	OBS	T0425	0516	34970	2765			14786								
		STD	0500	0490	3497	2768	0004775	0333	14788								
	127	OBS	0525	0481	34965	2769			14788								
		STD	0600	0454	3496	2772	0004530	0379	14790								
	127	OBS	T0628	0445	34955	2772			14790								
		STD	0700	0425	3494	2773	0004439	0424	14794								
		STD	0800	0402	3493	2775	0004341	0468	14801								
	127	OBS	0839	0394	34928	2776			14804								
		STD	0900	0386	3493	2776	0004274	0511	14811								
		STD	1000	0373	3492	2777	0004231	0554	14822								
	127	OBS	T1050	0368	34921	2778			14828								
		STD	1100	0363	3493	2779	0004183	0596	14834								
		STD	1200	0355	3493	2780	0004110	0637	14848								
		STD	1300	0349	3494	2781	0004067	0678	14862								
		STD	1400	0345	3495	2782	0004038	0719	14877								
		STD	1500	0342	3496	2783	0004020	0759	14893								
	127	OBS	T1577	0342	34962	2784			14906								

REFERENCE: CTRY CODE	REFERENCE: ID NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	QUALITY INDICES	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR.1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPLS.	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT.	WAVE OBSERVATIONS: PER.	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT.	NODC STATION NUMBER
311138	ME	52349N	035014W		184	25	07	28	127	1967	C13	020		2743	16	18	2	2		X4	X	9	0020

WATER: COLOR CODE	WATER: TRANS. m/	WIND: DIR.	WIND: SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP °C: DRY BULB	AIR TEMP °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		25	S15	993	122	122	1	14	

MESSENGR TIME & HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S °/₀₀	SIGMA-T	SPECIFIC VOLUME ANOMALY-10⁸	Σ Δ D DYN. M Σ 10³	SOUND VELOCITY	O₂ m	PO₄-P µg-at/l	TOTAL-P µg	NO₂-N µg	NO₃-N µg	SiO₄-Si µg	pH	ICC
		STD	0000	1133	3477	2656	0014865	0000	14949								
	127	OBS	0000	1133	34773	2656			14949								
		STD	0010	1126	3478	2658	0014722	0015	14948								
	127	OBS	0011	1123	34780	2658			14947								
		STD	0020	1033	3482	2677	0012858	0029	14917								
		STD	0030	0947	3486	2695	0011191	0041	14888								
	127	OBS	0032	0932	34869	2698			14883								
		STD	0050	0825	3490	2718	0009079	0061	14846								
	127	OBS	0053	0809	34905	2721			14840								
		STD	0075	0704	3493	2738	0007203	0081	14804								
	127	OBS	0080	0690	34932	2740			14799								
		STD	0100	0673	3495	2744	0006682	0099	14796								
	127	OBS	0105	0669	34954	2745			14795								
		STD	0125	0656	3496	2747	0006424	0115	14793								
		STD	0150	0646	3497	2749	0006258	0131	14793								
	127	OBS	0159	0645	34981	2750			14795								
		STD	0200	0658	3503	2752	0006045	0162	14807								
	127	OBS	T0212	0659	35046	2753			14810								
		STD	0250	0620	3502	2756	0005698	0191	14800								
		STD	0300	0575	3498	2759	0005493	0219	14790								
		STD	0400	0502	3494	2765	0005024	0272	14776								
	127	OBS	T0419	0491	34935	2766			14775								
		STD	0500	0454	3493	2769	0004638	0320	14773								
	127	OBS	0521	0446	34930	2770			14773								
		STD	0600	0425	3493	2773	0004413	0365	14777								
	127	OBS	T0624	0419	34924	2773			14779								
		STD	0700	0403	3492	2774	0004331	0409	14784								
		STD	0800	0385	3491	2775	0004291	0452	14793								
	127	OBS	0835	0380	34908	2776			14797								
		STD	0900	0373	3491	2776	0004270	0495	14805								
		STD	1000	0363	3490	2777	0004261	0537	14817								
	127	OBS	T1046	0359	34901	2777			14823								
		STD	1100	0355	3490	2778	0004242	0580	14831								
		STD	1200	0347	3491	2779	0004176	0622	14844								
		STD	1300	0342	3492	2780	0004150	0664	14859								
		STD	1400	0337	3492	2781	0004122	0705	14874								
		STD	1500	0334	3493	2782	0004110	0746	14889								
	127	OBS	T1571	0333	34934	2782			14901								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	BLOCK	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
	311138	ME	52525N	035510W		184	25	07	29	163	1967	C13	021	3657	16	06	3	3		X1	4	4		0021

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		03	S13	102	118	104	6	14	

MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^8	$\Sigma\Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCC
		STD	0000	1097	3483	2667	0013842	0000	14937								
163		OBS	0000	1097	34827	2667			14937								
		STD	0010	1094	3483	2667	0013821	0014	14937								
163		OBS	0012	1088	34826	2668			14935								
		STD	0020	1028	3487	2682	0012406	0027	14916								
		STD	0030	0952	3491	2698	0010901	0039	14890								
163		OBS	0034	0921	34926	2705			14880								
		STD	0050	0790	3496	2728	0008128	0058	14833								
163		OBS	0053	0772	34973	2731			14827								
		STD	0075	0715	3508	2748	0006235	0076	14810								
163		OBS	0080	0705	35092	2750			14807								
		STD	0100	0677	3509	2755	0005663	0090	14799								
163		OBS	0107	0671	35095	2755			14798								
		STD	0125	0673	3512	2757	0005453	0104	14802								
		STD	0150	0675	3514	2758	0005376	0118	14807								
163		OBS	0159	0676	35144	2759			14809								
		STD	0200	0675	3515	2760	0005350	0145	14816								
163		OBS	T0211	0674	35157	2760			14817								
		STD	0250	0670	3515	2760	0005392	0172	14822								
		STD	0300	0660	3514	2760	0005410	0199	14826								
		STD	0400	0621	3511	2763	0005262	0252	14827								
163		OBS	T0419	0611	35104	2764			14826								
		STD	0500	0557	3508	2769	0004790	0302	14817								
163		OBS	0517	0545	35068	2770			14815								
		STD	0600	0475	3502	2774	0004337	0348	14799								
163		OBS	T0622	0460	35012	2775			14796								
		STD	0700	0434	3497	2775	0004323	0391	14798								
		STD	0800	0409	3494	2775	0004349	0434	14804								
163		OBS	0823	0404	34931	2775			14805								
		STD	0900	0397	3493	2776	0004353	0478	14815								
		STD	1000	0389	3494	2777	0004334	0521	14829								
163		OBS	T1063	0383	34937	2778			14837								
		STD	1100	0380													
		STD	1200	0371													
		STD	1300	0362													
		STD	1400	0353													
		STD	1500	0344													
163		OBS	1629	0332													

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	BLOCK	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
	311138	ME	52425N	035355W		184	25	07	30	140	1967	C13	022	3749	15	03	2	3		X1	8	4		0022

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		35	S07	169	111	088	7	14	

MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^8	$\Sigma\Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCC
		STD	0000	1137	3478	2655	0014891	0000	14950								
140		OBS	0000	1137	34779	2655			14950								
140		OBS	0009	1129	34775	2657			14949								
		STD	0010	1122	3478	2658	0014645	0015	14946								
		STD	0020	1055	3482	2674	0013226	0029	14925								
140		OBS	0029	0994	34852	2687			14905								
		STD	0030	0987	3486	2688	0011831	0041	14902								
140		OBS	0049	0861	34910	2713			14859								
		STD	0050	0854	3491	2714	0009418	0062	14857								
140		OBS	0074	0725	34952	2737			14812								
		STD	0075	0722	3495	2737	0007283	0083	14811								
140		OBS	0097	0665	34962	2746			14792								
		STD	0100	0665	3497	2746	0006428	0100	14793								
		STD	0125	0665	3500	2749	0006244	0116	14797								
140		OBS	0147	0665	35016	2750			14801								
		STD	0150	0663	3502	2750	0006138	0132	14801								
140		OBS	0196	0640	35012	2753			14799								
		STD	0200	0639	3501	2753	0005930	0162	14799								
		STD	0250	0629	3501	2754	0005926	0192	14804								
		STD	0300	0612	3500	2756	0005831	0221	14805								
		STD	0400	0557	3498	2762	0005371	0277	14799								
140		OBS	T0402	0556	34984	2762			14799								
140		OBS	0492	0483	34959	2768			14784								
		STD	0500	0480	3496	2769	0004729	0328	14784								
140		OBS	T0593	0452	34962	2772			14788								
		STD	0600	0450	3496	2772	0004483	0374	14788								
		STD	0700	0420	3495	2775	0004307	0418	14792								
140		OBS	0789	0399	34940	2776			14798								
		STD	0800	0398	3494	2776	0004220	0460	14799								
		STD	0900	0385	3494	2778	0004144	0502	14810								
140		OBS	T0990	0374	34943	2779			14821								
		STD	1000	0373	3494	2779	0004083	0543	14822								
		STD	1100	0362	3495	2780	0004016	0584	14834								
		STD	1200	0352	3495	2782	0003964	0624	14847								
		STD	1300	0343	3495	2783	0003920	0663	14860								
		STD	1400	0335	3495	2784	0003885	0702	14873								
		STD	1500	0328	3496	2784	0003852	0741	14887								
140		OBS	T1508	0327	34955	2785			14888								

TABLE III.—Continued

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPLICATE	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR.1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT.	WAVE OBSERVATIONS: PER.	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYP.	CLOUD CODES: AMT.		NODC STATION NUMBER
31	1138	ME	52305N	035550W		18	4	25	07	31	1967	C13	023	3018	14	02	1	4		X8	6	7		0023

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		15	S11	207	111	106	7	14	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-E8	ΔD DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	NODC
		STD	0000	1133	3478	2656	0014813	0000	14949								
	137	OBS	0000	1133	34780	2656			14949								
	137	OBS	0009	1128	34778	2657			14948								
		STD	0010	1128	3478	2657	0014750	0015	14949								
		STD	0020	1105	3479	2662	0014300	0029	14942								
	137	OBS	0029	1052	34823	2674			14925								
		STD	0030	1039	3483	2677	0012907	0043	14921								
	137	OBS	0045	0881	34918	2710			14866								
		STD	0050	0851	3493	2716	0009240	0065	14856								
	137	OBS	0068	0768	34956	2731			14828								
		STD	0075	0750	3496	2734	0007609	0086	14822								
	137	OBS	0090	0717	34965	2739			14812								
		STD	0100	0701	3497	2741	0006906	0104	14807								
		STD	0125	0673	3499	2747	0006424	0121	14800								
	137	OBS	0134	0667	34999	2748			14800								
		STD	0150	0666	3501	2749	0006222	0137	14802								
	137	OBS	T0179	0665	35035	2752			14807								
		STD	0200	0665	3504	2752	0006047	0167	14810								
		STD	0250	0666	3506	2753	0006002	0198	14819								
		STD	0300	0667	3508	2755	0005958	0227	14828								
	137	OBS	T0355	0668	35099	2756			14838								
		STD	0400	0598	3501	2758	0005702	0286	14816								
	137	OBS	0443	0547	34955	2760			14802								
		STD	0500	0510	3496	2765	0005092	0340	14796								
	137	OBS	T0528	0495	34961	2767			14795								
		STD	0600	0472	3496	2770	0004723	0389	14797								
		STD	0700	0442	3497	2774	0004449	0435	14801								
	137	OBS	0711	0439	34966	2774			14802								
		STD	0800	0415	3496	2776	0004272	0478	14807								
		STD	0900	0391	3495	2777	0004178	0520	14813								
	137	OBS	T0900	0391	34947	2777			14813								
		STD	1000	0372	3495	2780	0004035	0562	14822								
		STD	1100	0357	3495	2781	0003934	0601	14832								
		STD	1200	0346	3495	2782	0003884	0640	14844								
		STD	1300	0339	3495	2783	0003871	0679	14858								
		STD	1400	0337	3495	2783	0003917	0718	14874								
	137	OBS	T1418	0337	34951	2783			14877								

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPLICATE	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR.1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT.	WAVE OBSERVATIONS: PER.	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYP.	CLOUD CODES: AMT.		NODC STATION NUMBER
31	1138	ME	52395N	035329W		18	4	25	08	01	1967	C13	024	3292	13	12	3	4		X2	6	8		0024

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		08	S20	169	100	100	6	14	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-E8	ΔD DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	NODC
		STD	0000	1080	3482	2669	0013603	0000	14930								
	075	OBS	0000	1080	34820	2669			14930								
		STD	0010	1078	3482	2669	0013596	0014	14931								
	075	OBS	0011	1078	34820	2669			14931								
		STD	0020	1072	3482	2671	0013488	0027	14931								
	075	OBS	0027	1067	34825	2672			14930								
		STD	0030	1017	3485	2682	0012395	0040	14913								
	075	OBS	0046	0828	34963	2722			14847								
		STD	0050	0816	3497	2725	0008429	0061	14843								
	075	OBS	0066	0774	34995	2733			14830								
		STD	0075	0756	3501	2737	0007321	0081	14825								
	075	OBS	0086	0736	35030	2741			14819								
		STD	0100	0716	3504	2744	0006626	0098	14814								
		STD	0125	0690	3504	2749	0006248	0114	14808								
	075	OBS	0127	0689	35045	2749			14808								
		STD	0150	0681	3506	2751	0006049	0129	14809								
	075	OBS	T0166	0677	35063	2752			14810								
		STD	0200	0677	3507	2753	0005982	0160	14815								
		STD	0250	0678	3509	2754	0005961	0189	14824								
		STD	0300	0678	3510	2755	0005942	0219	14832								
	075	OBS	T0315	0678	35106	2755			14836								
	075	OBS	0397	0643	35066	2757			14834								
		STD	0400	0640	3506	2757	0005887	0278	14833								
	075	OBS	T0480	0563	35009	2763			14815								
		STD	0500	0548	3500	2764	0005269	0334	14812								
		STD	0600	0485	3497	2769	0004829	0385	14803								
	075	OBS	0646	0463	34956	2770			14801								
		STD	0700	0448	3496	2772	0004598	0432	14804								
		STD	0800	0419	3495	2775	0004375	0477	14808								
	075	OBS	T0801	0419	34953	2775			14808								
		STD	0900	0397	3495	2777	0004205	0519	14816								
		STD	1000	0379	3495	2779	0004081	0561	14825								
		STD	1100	0366	3495	2781	0004012	0601	14836								
		STD	1200	0358	3495	2781	0004007	0641	14849								
		STD	1300	0355	3495	2782	0004052	0682	14865								
	075	OBS	T1301	0355	34952	2782			14865								

TABLE IV.—Observed and interpolated oceanographic data from stations taken by USCGC CHINCOTEAGUE, at Ocean Station CHARLIE, 2 August—24 August 1967, prepared from NODC Listing No. 31–1143.

NODC REF ID NO.		SHIP CODE	LATITUDE	LONGITUDE	DRIFT INDEX	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. SAMPLE DEPTH	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES			NODC STATION NUMBER
COUNTRY CODE	CRUISE NUMBER		° 1/10	° 1/10		10°	1°	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT.	PER.	SEA AMT.		TYPE	AMT		
31	1143	CC	52455N	035150W		184	25	08	02	126	1967	C14	001	3260	1	12	1				0	3		0001

*DT	*S‰	WIND			BAROMETER (mb)	AIR TEMPERATURE °C		VIS. CODE	NUMBER OBS. LEVELS	SPECIAL OBSERVATIONS
WATER COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB			
		11	S15		251	122	100	8	10	

CAST TIME DURATION (or) HR. SCHED. TIME 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY 1/10⁶	DYN. M. X 10³	COMPUTED SOUND VELOCITY	O_2 ml/l	*AMBIENT LIGHT PO_4-P	TOTAL-P	NO_3-N	NO_2-N	SiO_4-Si	*REJECTED SOUND VELOCITY	pH
		STD	0000	1131	34.90	26.58	0014617	0000	14948								
126		OBS	0000	1131	34.802	26.58			14948								
		STD	0010	1125	34.81	26.60	0014469	0014	14948								
126		OBS	0010	1125	34.811	26.60			14948								
		STD	0020	1059	34.83	26.74	0013188	0028	14926								
		STD	0030	0985	34.86	26.89	0011873	0040	14901								
126		OBS	0031	0977	34.859	26.90			14899								
126		OBS	0049	0822	34.897	27.18			14844								
		STD	0050	0816	34.90	27.19	0008958	0061	14842								
		STD	0075	0704	34.94	27.39	0007136	0081	14804								
126		OBS	0075	0704	34.940	27.39			14804								
126		OBS	0098	0669	34.971	27.46			14794								
		STD	0100	0668	34.97	27.46	0006455	0098	14794								
		STD	0125	0658	34.98	27.48	0006303	0114	14794								
126		OBS	0146	0653	34.995	27.50			14796								
		STD	0150	0654	35.00	27.50	0006133	0130	14797								
126		OBS	0195	0654	35.051	27.54			14805								
		STD	0200	0650	35.05	27.55	0005812	0160	14804								
		STD	0250	0613	35.02	27.57	0005597	0188	14797								
		STD	0300	0580	35.00	27.60	0005404	0216	14792								
126		OBS	T0386	0533	34.979	27.64			14787								
		STD	0400	0527	34.98	27.65	0005051	0268	14787								
126		OBS	0485	0495	34.977	27.68			14788								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDEX	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR. 1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER.	WAVE OBSERVATIONS SEA AMT.	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT	NODC STATION NUMBER
31	1143	CC	52435N	035252W		184	25	08	03	159	1967	C14	002	3566	16	18	4			25	7	8	0002

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		17	S25	081	139	133	4	14	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10⁶	Σ Δ D DYN. M. X 10³	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_4-Si µg-at/l	pH	O_2 %
		STD	0000	1141	34.75	26.52	0015175	0000	14951								
159		OBS	0000	1141	34.750	26.52			14951								
		STD	0010	1138	34.76	26.54	0015050	0015	14952								
159		OBS	0010	1138	34.763	26.54			14952								
		STD	0020	1122	34.77	26.58	0014744	0030	14948								
		STD	0030	1106	34.79	26.62	0014344	0045	14944								
159		OBS	0032	1103	34.802	26.64			14944								
159		OBS	0049	0888	34.902	27.08			14869								
		STD	0050	0881	34.90	27.09	0009884	0069	14867								
		STD	0075	0749	34.94	27.32	0007729	0091	14821								
159		OBS	0075	0749	34.942	27.32			14821								
		STD	0100	0698	34.95	27.40	0007014	0109	14806								
159		OBS	0101	0696	34.952	27.41			14805								
		STD	0125	0675	34.97	27.45	0006599	0126	14801								
		STD	0150	0658	34.99	27.49	0006295	0142	14798								
159		OBS	0150	0658	34.986	27.49			14798								
		STD	0200	0640	34.99	27.51	0006134	0173	14800								
159		OBS	T0201	0640													
		STD	0250	0602	34.99	27.56	0005705	0203	14793								
		STD	0300	0569	34.99	27.60	0005351	0231	14788								
159		OBS	T0394	0522													
		STD	0400	0521	34.99	27.66	0004882	0282	14785								
159		OBS	0488	0496	34.992	27.69			14789								
		STD	0500	0489	34.99	27.70	0004614	0329	14788								
159		OBS	T0586	0449	34.968	27.73			14785								
		STD	0600	0445	34.97	27.73	0004372	0374	14786								
		STD	0700	0422	34.96	27.75	0004241	0417	14793								
159		OBS	0784	0405	34.957	27.77			14800								
		STD	0800	0402	34.96	27.77	0004148	0459	14801								
		STD	0900	0386	34.95	27.78	0004074	0500	14811								
159		OBS	T0993	0373	34.949	27.80			14821								
		STD	1000	0372	34.95	27.80	0004020	0541	14822								
		STD	1100	0360	34.95	27.81	0003962	0581	14833								
		STD	1200	0350	34.95	27.82	0003925	0620	14846								
		STD	1300	0343	34.96	27.83	0003846	0659	14860								
		STD	1400	0337	34.97	27.85	0003777	0697	14874								
		STD	1500	0334	34.98	27.86	0003743	0735	14890								
159		OBS	T1563	0333	34.993	27.87			14900								

Table IV—Continued

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPLICATE RECORD	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR. 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. SAMPLE DEPTH	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT.	WAVE OBSERVATIONS: PER.	WAVE OBSERVATIONS: SEA AMT.	WEATHER CODE	CLOUD CODES: TYP	CLOUD CODES: AMT		NODC STATION NUMBER
31	11143	CC	52413N	035235W		184	25	09	06	121	1967	C14	003	3475	1	33	1				7	6		0003

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		30	S15	108	111	100	7	14	

CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY - 10⁵	3Δ0 DYN. M. x 10³	COMPUTED SOUND VELOCITY (m/sec)	O₂ ml/l	AMBIENT LIGHT: PO₄-P µgm-at/l	MEASURED SOUND VELOCITY (m/sec)	TOTAL-P µgm-at/l	NO₃-N µgm-at/l	NO₂-N µgm-at/l	Si O₃-Si µgm-at/l	pH
	STD	0000	1118	3480	2660	0014427	0000	14944								
121	OBS	0000	1118	34798	2660			14944								
	STD	0010	1117	3481	2661	0014361	0014	14945								
121	OBS	0010	1117	34808	2661			14945								
	STD	0020	1116	3481	2662	0014366	0028	14946								
	STD	0030	1114	3481	2662	0014341	0043	14947								
121	OBS	0032	1114	34805	2662			14947								
	STD	0050	0984	3491	2710	0009859	0067	14868								
121	OBS	0050	0884	34914	2710			14868								
	STD	0075	0744	3496	2734	0007539	0089	14819								
121	OBS	0076	0740	34959	2735			14818								
	STD	0100	0700	3499	2743	0006743	0107	14807								
121	OBS	0100	0700	34991	2743			14807								
	STD	0125	0686	3502	2747	0006410	0123	14806								
	STD	0150	0669	3502	2750	0006165	0139	14803								
121	OBS	0150	0669	35023	2750			14803								
	STD	0200	0622	3498	2753	0005934	0169	14792								
121	OBS	T0200	0622	34982	2753			14792								
	STD	0250	0573	3496	2758	0005520	0198	14780								
	STD	0300	0534	3495	2761	0005246	0224	14773								
	STD	0400	0488	3491	2764	0005096	0276	14770								
121	OBS	0400	0488	34909	2764			14770								
	STD	0500	0485	3499	2771	0004572	0325	14786								
121	OBS	0501	0485	34990	2771			14786								
	STD	0600	0442	3495	2772	0004491	0370	14785								
121	OBS	T0603	0441	34946	2772			14785								
	STD	0700	0422	3495	2774	0004329	0414	14793								
	STD	0800	0404	3495	2777	0004190	0456	14802								
121	OBS	0806	0403	34955	2777			14803								
	STD	0900	0388	3494	2777	0004221	0498	14811								
	STD	1000	0373	3492	2777	0004232	0541	14822								
121	OBS	T1010	0372	34922	2777			14823								
	STD	1100	0361	3493	2779	0004100	0582	14834								
	STD	1200	0351	3495	2781	0003968	0623	14846								
	STD	1300	0343	3496	2783	0003865	0662	14860								
	STD	1400	0338	3497	2785	0003794	0700	14875								
	STD	1500	0334	3498	2786	0003725	0738	14890								
121	OBS	T1547	0333	34988	2787			14898								

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPLICATE RECORD	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR. 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. SAMPLE DEPTH	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT.	WAVE OBSERVATIONS: PER.	WAVE OBSERVATIONS: SEA AMT.	WEATHER CODE	CLOUD CODES: TYP	CLOUD CODES: AMT		NODC STATION NUMBER
31	11143	CC	52420N	035390W		184	25	08	07	123	1967	C14	004	3566	14	26	2							0004

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		21	S15	139	117	111	7	14	

MESSENGER TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY - 10⁵	3Δ0 DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₃-N µg-at/l	NO₂-N µg-at/l	Si O₃-Si µg-at/l	pH	QUAL. CODE
		STD	0000	1104	3484	2666	0013874	0000	14939								
	123	OBS	0000	1104	34839	2666			14939								
	123	OBS	0009	1102	34831	2666			14940								
		STD	0010	1102	3483	2666	0013915	0014	14940								
		STD	0020	1100	3484	2667	0013867	0028	14941								
		STD	0030	1090	3484	2669	0013674	0042	14939								
	123	OBS	0030	1090	34843	2669			14939								
	123	OBS	0047	1055													
		STD	0050	1019	3487	2684	0012324	0068	14917								
	123	OBS	0070	0833	34905	2717			14852								
		STD	0075	0807	3491	2721	0008789	0094	14843								
	123	OBS	0093	0732	34944	2735			14818								
		STD	0100	0721	3496	2738	0007252	0114	14815								
		STD	0125	0689	3499	2745	0006637	0131	14807								
	123	OBS	0138	0676	34994	2747			14804								
		STD	0150	0670	3499	2747	0006424	0148	14803								
	123	OBS	T0182	0654	34984	2749			14802								
		STD	0200	0636	3497	2750	0006203	0179	14798								
		STD	0250	0590	3494	2754	0005911	0210	14787								
		STD	0300	0552	3492	2757	0005654	0238	14780								
	123	OBS	T0364	0516	34916	2761			14776								
		STD	0400	0503	3493	2764	0005111	0292	14776								
	123	OBS	0453	0487	34942	2767			14779								
		STD	0500	0478	3495	2768	0004780	0342	14783								
	123	OBS	T0543	0467	34957	2770			14786								
		STD	0600	0442	3493	2771	0004611	0389	14784								
		STD	0700	0408	3491	2773	0004463	0434	14786								
	123	OBS	0722	0403	34907	2773			14788								
		STD	0800	0395	3492	2775	0004333	0478	14798								
		STD	0900	0386	3494	2777	0004200	0521	14811								
	123	OBS	T0919	0384	34939	2778			14813								
		STD	1000	0377	3494	2779	0004138	0562	14824								
		STD	1100	0369	3495	2780	0004107	0604	14837								
		STD	1200	0362	3495	2781	0004085	0645	14851								
		STD	1300	0355	3495	2781	0004060	0685	14865								
		STD	1400	0350	3495	2782	0004056	0726	14880								
	123	OBS	T1429	0348	34955	2782			14884								

TABLE IV—Continued

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPE IN	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR. 1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYP	CLOUD CODES AMT	NODC STATION NUMBER
	311143	CC	52462N	035355W		184	25	08	08	122	1967	C14	005	3658	15	27	1				3	6	0005

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		09	S09	149	111	100	7	14	

MESSENGER TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	TCC
		STD	0000	1100	3479	2663	0014167	0000	14937								
122		OBS	0000	1100	34790	2663			14937								
		STD	0010	1094	3482	2667	0013866	0014	14937								
122		OBS	0010	1094	34820	2667			14937								
		STD	0020	1090	3481	2667	0013874	0028	14937								
		STD	0030	1085	3481	2667	0013876	0042	14937								
122		OBS	0031	1085	34804	2667			14937								
		STD	0050	0907	34 /0	2705	0010319	0066	14877								
122		OBS	0050	0707	34899	2705			14877								
		STD	0075	0745	3490	2730	0007978	0089	14819								
122		OBS	0075	0745	34901	2730			14819								
		STD	0100	0685	3494	2741	0006930	0107	14800								
122		OBS	0100	0685	34938	2741			14800								
		STD	0125	0667	3495	2745	0006641	0124	14797								
		STD	0150	0649	3496	2748	0006345	0141	14794								
122		OBS	0151	0648													
		STD	0200	0647	3499	2750	0006220	0172	14802								
122		OBS	T0202	0647	34988	2750			14803								
		STD	0250	0606	3498	2755	0005846	0202	14794								
		STD	0300	0569	3496	2758	0005552	0231	14787								
		STD	0400	0517	3494	2763	0005235	0285	14782								
122		OBS	T0404	0515	34935	2763			14782								
		STD	0500	0491	3495	2767	0004935	0336	14788								
122		OBS	0504	0490	34952	2767			14789								
		STD	0600	0456	3497	2772	0004480	0383	14791								
122		OBS	0606	0454	34972	2773			14791								
		STD	0700	0421	3495	2775	0004318	0427	14792								
		STD	0800	0396	3493	2776	0004270	0470	14798								
122		OBS	0809	0394	34924	2775			14799								
		STD	0900	0385	3492	2776	0004314	0512	14810								
		STD	1000	0376	3491	2776	0004333	0556	14823								
122		OBS	1012	0375	34913	2776			14825								
		STD	1100	0367	3492	2778	0004260	0599	14836								
		STD	1200	0358	3493	2779	0004176	0641	14849								
		STD	1300	0350	3494	2781	0004094	0682	14863								
		STD	1400	0341	3495	2783	0003996	0723	14876								
		STD	1500	0333	3496	2784	0003907	0762	14889								
122		OBS	T1517	0332	34957	2784			14892								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPE IN	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR. 1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYP	CLOUD CODES AMT	NODC STATION NUMBER
	311143	CC	52423N	035346W		184	25	08	09	122	1967	C14	006	1829	14	35	1			16	8	8	0006

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		35	S18	159	100	089	7	14	

MESSENGER TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	TCC
		STD	0000	1114	3482	2663	0014224	0000	14942								
122		OBS	0000	1114	34815	2663			14942								
		STD	0010	1113	3482	2663	0014216	0014	14944								
122		OBS	0010	1113	34817	2663			14944								
		STD	0020	1099	3482	2666	0013975	0028	14940								
		STD	0030	1085	3484	2670	0013596	0042	14937								
122		OBS	0030	1085	34842	2670			14937								
122		OBS	0047	0936	34919	2702			14887								
		STD	0050	0917	3493	2706	0010245	0066	14881								
122		OBS	0071	0801	34965	2726			14841								
		STD	0075	0782	3497	2729	0008022	0089	14834								
122		OBS	0094	0712	34963	2739			14810								
		STD	0100	0707	3497	2741	0006987	0108	14809								
		STD	0125	0684	3498	2745	0006644	0125	14805								
122		OBS	0141	0670	34984	2747			14802								
		STD	0150	0662	3498	2748	0006392	0141	14800								
122		OBS	T0191	0627	34974	2752			14793								
		STD	0200	0621	3497	2753	0005988	0172	14792								
		STD	0250	0589	3497	2756	0005675	0201	14787								
		STD	0300	0563	3497	2759	0005448	0229	14785								
122		OBS	T0365	0536	34961	2762			14785								
		STD	0400	0528	3497	2764	0005153	0282	14787								
122		OBS	0454	0513	34971	2766			14790								
		STD	0500	0496	3498	2769	0004773	0331	14791								
122		OBS	T0542	0481	34982	2770			14792								
		STD	0600	0458	3497	2772	0004503	0378	14791								
		STD	0700	0425	3495	2774	0004365	0422	14794								
122		OBS	0726	0418	34943	2774			14795								
		STD	0800	0401	3493	2775	0004329	0466	14800								
		STD	0900	0382	3493	2777	0004198	0508	14809								
122		OBS	T0916	0379	34925	2777			14810								
		STD	1000	0373	3493	2778	0004202	0550	14822								
		STD	1100	0366	3493	2779	0004188	0592	14836								
		STD	1200	0359	3493	2780	0004171	0634	14849								
		STD	1300	0352	3493	2780	0004151	0676	14863								
		STD	1400	0345	3494	2781	0004128	0717	14877								
122		OBS	T1437	0342	34936	2782			14882								

TABLE IV—Continued

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE	LONGITUDE	MARSDEN SQUARE	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLING	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT.	WAVE OBSERVATIONS: PER.	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT.	NODC STATION NUMBER
311143		CC	52451N	035352W	184	25	08	10	1967	C14	007	3658	15	30	1				7	6	0007

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		26	S08	237	100	089	7	14	

MESSENGER TIME OF OBS. HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10⁸	ΔD DYN. M. E 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₃-N µg-at/l	NO₂-N µg-at/l	SiO₄-Si µg-at/l	pH
		STD	0000	1130	3481	2659	0014569	0000	14948							
122		OBS	0000	1130	34806	2659			14948							
		STD	0010	1127	3479	2658	0014696	0015	14948							
122		OBS	0010	1127	34785	2658			14948							
		STD	0020	1111	3480	2662	0014330	0029	14944							
		STD	0030	1095	3482	2666	0013922	0043	14941							
122		OBS	0030	1095	34821	2666			14941							
		STD	0050	0926	3486	2699	0010910	0068	14883							
122		OBS	0050	0926	34859	2699			14883							
		STD	0075	0781	3491	2725	0008453	0092	14833							
122		OBS	0075	0781	34905	2725			14833							
		STD	0100	0711	3493	2737	0007316	0112	14810							
122		OBS	0100	0711	34933	2737			14810							
		STD	0125	0642	3489	2743	0006764	0130	14787							
		STD	0150	0607	3489	2747	0006386	0146	14777							
122		OBS	0150	0607	34886	2747			14777							
		STD	0200	0644	3498	2750	0006252	0178	14801							
122		OBS	T0201	0645	34980	2750			14802							
		STD	0250	0594	3496	2755	0005827	0208	14789							
		STD	0300	0551	3494	2758	0005523	0236	14780							
		STD	0400	0494	3489	2762	0005286	0290	14772							
122		OBS	T0405	0492	34890	2762			14772							
		STD	0500	0475	3493	2767	0004893	0341	14781							
122		OBS	0504	0474	34932	2767			14782							
		STD	0600	0450	3494	2771	0004631	0389	14788							
122		OBS	0606	0449	34944	2771			14788							
		STD	0700	0425	3493	2773	0004514	0435	14794							
		STD	0800	0404	3493	2775	0004364	0479	14802							
122		OBS	0808	0402	34925	2775			14802							
		STD	0900	0388	3493	2776	0004268	0522	14812							
		STD	1000	0374	3493	2778	0004191	0564	14822							
122		OBS	T1011	0373	34932	2778			14824							
		STD	1100	0363	3493	2779	0004116	0606	14835							
		STD	1200	0353	3494	2780	0004071	0647	14847							
		STD	1300	0345	3494	2781	0004040	0687	14861							
		STD	1400	0339	3494	2782	0004030	0728	14875							
		STD	1500	0336	3494	2783	0004054	0768	14890							
122		OBS	T1518	0335	34941	2783			14893							

NODC REF ID NO. COUNTRY CODE	CRUISE NUMBER	SHIP CODE	LATITUDE	LONGITUDE	MARSDEN SQUARE	STATION TIME (GMT): HOUR	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NUMBER	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. SAMPLING DEPTH	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT.	WAVE OBSERVATIONS: PER.	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD: TYPE	CLOUD: AMT.	NODC STATION NUMBER
31	1143	CC	52470N	035280W	184	25	08	11	1967	C14	008	3659	1	18	1			15	4	6	0008

°DT PAPER COLOR	°DT TRANS. cm	°S° ORIG	°S° CORR	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NUMBER OBS. LEVELS	SPECIAL OBSERVATIONS
		19		S20	213	128	122	7	14		

CAST TIME OF OBS. DURATION OF CAST HR 1/10	CAST NO.	CARD TYPE	DEPTH m	T °C	S °/₀₀	SIGMA-T	SPECIFIC VOLUME ANOMALY - E 10⁸	ΔD DYN. M. E 10³	COMPUTED SOUND VELOCITY m/sec	O₂ ml/l	AMBIENT LIGHT: PO₄-P µgm-at/l	AMBIENT LIGHT: TOTAL-P µgm-at/l	AMBIENT LIGHT: NO₃-N µgm-at/l	AMBIENT LIGHT: NO₂-N µgm-at/l	REVISED SOUND VELOCITY: Si O₄-Si µgm-at/l	REVISED SOUND VELOCITY: m/sec	pH
		STD	0000	1140	3478	2655	0014952	0000	14951								
124		OBS	0000	1140	34779	2655			14951								
		STD	0010	1130	3480	2658	0014668	0014	14949								
124		OBS	0012	1128	34798	2659			14949								
		STD	0020	1119	3479	2660	0014556	0029	14947								
		STD	0030	1108	3479	2661	0014490	0043	14945								
124		OBS	0033	1105	34774	2661			14944								
		STD	0050	0952	3484	2693	0011447	0069	14892								
124		OBS	0050	0952	34842	2693			14892								
		STD	0075	0736	3489	2730	0007917	0094	14915								
124		OBS	0075	0736	34893	2730			14915								
		STD	0100	0693	3493	2740	0007084	0112	14903								
124		OBS	0100	0693	34932	2740			14903								
		STD	0125	0665	3494	2744	0006711	0130	14896								
		STD	0150	0648	3494	2747	0006492	0146	14894								
124		OBS	0151	0649	34944	2747			14894								
		STD	0200	0651	3501	2751	0006109	0178	14904								
124		OBS	T0201	0651	35011	2752			14904								
		STD	0250	0599	3499	2757	0005652	0207	14891								
		STD	0300	0556	3497	2760	0005343	0235	14882								
		STD	0400	0503	3493	2764	0005136	0287	14876								
124		OBS	T0405	0501	34924	2764			14876								
		STD	0500	0493	3497	2768	0004850	0337	14889								
124		OBS	0506	0492	34967	2768			14890								
		STD	0600	0457	3496	2771	0004575	0384	14891								
124		OBS	T0606	0455													
		STD	0700	0431	3495	2774	0004424	0429	14897								
		STD	0800	0409	3495	2776	0004295	0473	14904								
124		OBS	0827	0403	34945	2776			14906								
		STD	0900	0390	3494	2777	0004199	0515	14912								
		STD	1000	0374	3494	2779	0004108	0557	14922								
124		OBS	T1024	0370	34940	2779			14925								
		STD	1100	0360	3494	2780	0004026	0597	14933								
		STD	1200	0349	3494	2781	0003961	0637	14945								
		STD	1300	0340	3494	2782	0003925	0677	14958								
		STD	1400	0333	3495	2783	0003910	0716	14973								
		STD	1500	0329	3495	2784	0003928	0755	14988								
124		OBS	T1616	0329	34949	2784			14907								

TABLE IV—Continued

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPE RECORD	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYP	CLOUD CODES AMT		NODC STATION NUMBER
311	143	CC	52453N	035311W		184	25	08	12	121	1967	C14	009	3292	15	32	1				4	3		0009

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		23	S05	183	111	106	7	14	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	DUPE RECORD
		STD	0000	1143	3475	2652	0015217	0000	14952								
	121	OBS	0000	1143	34749	2652			14952								
	121	OBS	0009	1134	34773	2656			14950								
		STD	0010	1133	3477	2656	0014896	0015	14950								
		STD	0020	1127	3478	2657	0014800	0030	14950								
	121	OBS	0029	1122	34777	2658			14949								
		STD	0030	1112	3478	2660	0014519	0045	14946								
	121	OBS	0048	0945	34848	2695			14890								
		STD	0050	0925	3486	2699	0010887	0070	14883								
	121	OBS	0072	0756	34938	2731			14823								
		STD	0075	0745	3494	2733	0007703	0093	14820								
	121	OBS	0096	0684	34934	2741			14799								
		STD	0100	0681	3494	2742	0006862	0111	14799								
		STD	0125	0668	3498	2747	0006432	0128	14798								
	121	OBS	0144	0663	35004	2749			14800								
		STD	0150	0664	3501	2750	0006196	0144	14801								
	121	OBS	T0194	0668	35056	2753			14811								
		STD	0200	0665	3505	2753	0005989	0174	14810								
		STD	0250	0639	3503	2755	0005871	0204	14808								
		STD	0300	0611	3502	2758	0005654	0233	14805								
	121	OBS	0386	0557	34984	2762			14797								
		STD	0400	0545	3498	2763	0005251	0287	14794								
	121	OBS	0483	0487	34949	2767			14784								
		STD	0500	0479	3495	2768	0004799	0338	14783								
	121	OBS	T0582	0446	34949	2772			14783								
		STD	0600	0439	3495	2772	0004442	0384	14783								
		STD	0700	0408	3494	2775	0004248	0427	14787								
	121	OBS	0779	0389	34932	2777			14792								
		STD	0800	0386	3493	2777	0004154	0469	14794								
		STD	0900	0375	3493	2778	0004116	0511	14806								
	121	OBS	0978	0367	34927	2778			14816								
		STD	1000	0365	3493	2779	0004085	0552	14819								
		STD	1100	0357	3493	2780	0004074	0592	14832								
		STD	1200	0350	3493	2780	0004072	0633	14846								
		STD	1300	0344	3493	2781	0004079	0674	14860								
		STD	1400	0341	3494	2782	0004047	0714	14876								
	121	OBS	T1477	0339	34947	2783			14888								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPE RECORD	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYP	CLOUD CODES AMT		NODC STATION NUMBER
311	143	CC	52492N	035343W		184	25	08	13	122	1967	C14	010	3475	14	31	2				1	8		0010

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		30	S20		111	106	7	14	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	DUPE RECORD
		STD	0000	1138	3472	2651	0015343	0000	14950								
	122	OBS	0000	1138	34720	2651			14950								
	122	OBS	0009	1136	34702	2650			14950								
		STD	0010	1133	3470	2650	0015399	0015	14949								
		STD	0020	1104	3473	2657	0014748	0030	14941								
	122	OBS	0027	1083	34741	2662			14935								
		STD	0030	1027	3477	2675	0013151	0044	14916								
	122	OBS	0043	0838	34841	2711			14849								
		STD	0050	0794	3484	2718	0009069	0067	14833								
	122	OBS	0065	0725	34840	2728			14809								
		STD	0075	0707	3489	2734	0007541	0087	14804								
	122	OBS	0087	0690	34940	2741			14800								
		STD	0100	0676	3495	2743	0006751	0105	14797								
		STD	0125	0661	3496	2746	0006504	0122	14795								
	122	OBS	0131	0659	34961	2747			14795								
		STD	0150	0667	3499	2748	0006384	0138	14802								
	122	OBS	T0174	0673	35019	2749			14809								
		STD	0200	0648	3500	2751	0006137	0169	14803								
		STD	0250	0606	3496	2753	0005965	0199	14794								
		STD	0300	0571	3494	2756	0005741	0229	14788								
	122	OBS	T0356	0540	34934	2760			14784								
		STD	0400	0524	3494	2762	0005290	0284	14785								
	122	OBS	0441	0510	34948	2764			14786								
		STD	0500	0490	3497	2768	0004775	0334	14788								
	122	OBS	T0529	0480	34978	2770			14789								
		STD	0600	0448	3496	2772	0004459	0380	14787								
	122	OBS	0671	0423	34947	2774			14788								
		STD	0700	0417	3494	2774	0004346	0424	14791								
		STD	0800	0398	3494	2776	0004220	0467	14799								
	122	OBS	T0871	0386	34936	2777			14806								
		STD	0900	0382													
		STD	1000	0368													
		STD	1100	0357													
		STD	1200	0349													
		STD	1300	0344													
	122	OBS	T1390	0342													

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPLICATE	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR 1/10	YEAR	ORIGINATORS CRUISE NO.	ORIGINATORS STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT	NODC STATION NUMBER
311	143	CC	52425N	035298W		184	25	08	14	136	1967	C14	011	3840	16	29	3				5	6	0011

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		31	523	051	106	100	7	14	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_4-Si µg-at/l	pH	QUAL
		STD	0000	1154	3477	2651	0015294	0000	14956								
136		OBS	0000	1154	34765	2651			14956								
		STD	0010	1154	3476	2651	0015384	0015	14957								
136		OBS	0010	1154	34756	2651			14957								
		STD	0020	1136	3477	2655	0015014	0031	14953								
		STD	0030	1118	3478	2659	0014653	0045	14948								
136		OBS	0032	1114	34777	2660			14947								
		STD	0050	0840	3489	2715	0009366	0069	14851								
136		OBS	0050	0840	34891	2715			14851								
		STD	0075	0745	3492	2731	0007837	0091	14819								
136		OBS	0076	0742	34922	2732			14818								
		STD	0100	0693	3493	2739	0007096	0110	14803								
136		OBS	0102	0690	34936	2740			14803								
		STD	0125	0674	3495	2744	0006735	0127	14800								
		STD	0150	0663	3497	2747	0006480	0143	14800								
136		OBS	0164	0659	34980	2748			14801								
		STD	0200	0659	3501	2751	0006177	0175	14807								
136		OBS	T0205	0658	35019	2751			14808								
		STD	0250	0634	3501	2754	0005954	0205	14806								
		STD	0300	0606	3500	2757	0005739	0235	14803								
		STD	0400	0548	3498	2762	0005289	0290	14795								
136		OBS	T0416	0538	34978	2763			14794								
		STD	0500	0486	3497	2769	0004704	0340	14786								
136		OBS	0507	0482	34973	2770			14786								
136		OBS	T0596	0425	34930	2773			14777								
		STD	0600	0424	3493	2773	0004402	0385	14777								
		STD	0700	0410	3493	2774	0004338	0429	14788								
136		OBS	0798	0396	34928	2775			14798								
		STD	0800	0396	3493	2775	0004285	0472	14798								
		STD	0900	0380	3492	2776	0004263	0515	14808								
136		OBS	T0992	0368	34909	2777			14818								
		STD	1000	0367	3491	2777	0004264	0557	14819								
		STD	1100	0356	3491	2778	0004180	0600	14831								
		STD	1200	0348	3492	2780	0004129	0641	14845								
		STD	1300	0341	3492	2781	0004087	0682	14859								
		STD	1400	0337	3493	2781	0004078	0723	14874								
		STD	1500	0336	3493	2782	0004106	0764	14890								
136		OBS	T1566	0336	34937	2782			14902								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPLICATE	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR 1/10	YEAR	ORIGINATORS CRUISE NO.	ORIGINATORS STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT	NODC STATION NUMBER
311	143	CC	52455N	035395W		184	25	08	15	122	1967	C14	012	3658	14	31	2				4	6	0012

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		30	522	112	117	106	7	14	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_4-Si µg-at/l	pH	QUAL
		STD	0000	1131	3477	2656	0014859	0000	14948								
122		OBS	0000	1131	34769	2656			14948								
		STD	0010	1130	3477	2656	0014851	0015	14949								
122		OBS	0010	1130	34771	2656			14949								
		STD	0020	1128	3477	2656	0014864	0030	14950								
		STD	0030	1126	3476	2656	0014884	0045	14951								
122		OBS	0031	1126	34764	2656			14951								
122		OBS	0049	0908	34822	2699			14876								
		STD	0050	0901	3483	2700	0010738	0070	14873								
122		OBS	0074	0770	34926	2728			14829								
		STD	0075	0767	3493	2729	0008070	0094	14828								
122		OBS	0098	0704	34932	2738			14807								
		STD	0100	0702	3494	2739	0007143	0113	14807								
		STD	0125	0678	3497	2745	0006639	0130	14802								
122		OBS	0147	0666	34998	2748			14801								
		STD	0150	0666	3500	2749	0006296	0146	14802								
122		OBS	T0196	0666	35018	2750			14810								
		STD	0200	0663	3502	2750	0006208	0177	14809								
		STD	0250	0624	3500	2755	0005869	0208	14802								
		STD	0300	0591	3499	2758	0005606	0236	14796								
122		OBS	T0380	0547	34971	2762			14792								
		STD	0400	0540	3497	2763	0005256	0291	14792								
122		OBS	0468	0513	34972	2766			14792								
		STD	0500	0497	3497	2768	0004859	0341	14791								
122		OBS	T0554	0473	34967	2770			14790								
		STD	0600	0455	3495	2771	0004616	0389	14790								
		STD	0700	0423	3494	2774	0004416	0434	14793								
122		OBS	0725	0416	34933	2774			14794								
		STD	0800	0403	3493	2775	0004338	0477	14801								
		STD	0900	0387	3493	2777	0004249	0520	14811								
122		OBS	T0920	0384	34931	2777			14813								
		STD	1000	0373	3493	2778	0004165	0562	14822								
		STD	1100	0362	3493	2779	0004112	0604	14834								
		STD	1200	0352	3493	2780	0004067	0645	14847								
		STD	1300	0345	3494	2781	0004055	0685	14860								
		STD	1400	0339	3494	2782	0004044	0726	14875								
122		OBS	T1439	0338	34937	2782			14881								

Table IV—Continued

REFERENCE: CTRY CODE	REFERENCE: NO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	QUAD	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYP	CLOUD CODES: AMT		NODC STATION NUMBER
311143		CC	52461N	035301W		184	25	08	16	129	1967	C14	013	3200	18	24	1			53	7	6		0013

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		11	S18	976	122	122	6	14	

MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^8	$\frac{1}{2}\Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	CODE
		STD	0000	1130	3473	2653	0015100	0000	14947								
129		OBS	0000	1130	34734	2653			14947								
		STD	0010	1128	3473	2653	0015123	0015	14948								
129		OBS	0012	1128	34727	2653			14948								
		STD	0020	1126	3473	2654	0015105	0030	14949								
		STD	0030	1123	3473	2655	0015054	0045	14950								
129		OBS	0035	1122	34736	2655			14950								
		STD	0050	0889	3486	2705	0010332	0071	14869								
129		OBS	0055	0832	34892	2716			14849								
		STD	0075	0739	3493	2733	0007679	0093	14817								
129		OBS	0084	0709	34933	2737			14807								
		STD	0100	0681	3493	2741	0006937	0111	14799								
129		OBS	0111	0666	34926	2743			14794								
		STD	0125	0662	3494	2744	0006651	0128	14795								
		STD	0150	0657	3497	2747	0006401	0145	14798								
129		OBS	0167	0653	34987	2749			14799								
		STD	0200	0648	3501	2752	0006062	0176	14803								
129		OBS	T0222	0643	35014	2753			14805								
		STD	0250	0628	3501	2755	0005876	0206	14803								
		STD	0300	0601	3500	2757	0005674	0235	14801								
		STD	0400	0543	3498	2763	0005226	0289	14793								
129		OBS	T0441	0517	34970	2765			14789								
		STD	0500	0471	3494	2768	0004771	0339	14780								
129		OBS	0553	0442	34926	2770			14776								
		STD	0600	0430	3493	2772	0004471	0385	14779								
129		OBS	T0665	0416	34931	2774			14784								
		STD	0700	0410	3493	2774	0004343	0429	14788								
		STD	0800	0395	3493	2776	0004253	0472	14798								
		STD	0900	0379	3493	2777	0004158	0514	14808								
129		OBS	0904	0378	34927	2777			14808								
		STD	1000	0370	3491	2777	0004292	0557	14820								
		STD	1100	0362	3490	2777	0004355	0600	14834								
129		OBS	T1147	0358	34898	2777			14840								
		STD	1200	0354	3490	2778	0004334	0643	14847								
		STD	1300	0347	3491	2779	0004277	0686	14861								
		STD	1400	0341	3491	2780	0004238	0729	14875								
		STD	1500	0335	3492	2781	0004188	0771	14890								
		STD	1750	0322	3494	2783	0004098	0875	14927								
129		OBS	T1758	0322	34937	2784			14928								

Table IV—Continued

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	QUAD	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO.	STATION TIME (GMT): DAY	STATION TIME (GMT): HR. 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYP	CLOUD CODES: AMT		NODC STATION NUMBER
31	1143	CC	52440N	035270W		184	25	08	17	119	1967	C14	014	3658	33	35	0			46	7	6		0014

WATER: COLOR CODE	WATER: TRANS. m	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		32	S12	105	117	111	6	18	

MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH m	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-STP	Σ Δ D DYN. M. Σ 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	TSUD
		STD	0000	1175	3473	2644	0015948	0000	14963								
119		OBS	0000	1175	34727	2644			14963								
		STD	0010	1172	3473	2645	0015933	0016	14963								
119		OBS	0010	1172	34725	2645			14963								
		STD	0020	1161	3474	2648	0015651	0032	14961								
		STD	0030	1102	3477	2661	0014419	0047	14942								
119		OBS	0031	1094	34772	2663			14940								
119		OBS	0048	0880	34882	2708			14866								
		STD	0050	0861	3488	2711	0009731	0071	14859								
119		OBS	0072	0711	34911	2735			14806								
		STD	0075	0704	3492	2737	0007277	0092	14803								
119		OBS	0096	0666	34959	2745			14792								
		STD	0100	0662	3496	2746	0006471	0109	14791								
		STD	0125	0642	3496	2749	0006250	0125	14788								
119		OBS	0144	0634	34959	2750			14788								
		STD	0150	0636	3497	2750	0006128	0141	14789								
119		OBS	T0194	0644	35012	2753			14800								
		STD	0200	0637	3501	2753	0005919	0171	14799								
		STD	0250	0581	3496	2757	0005649	0200	14784								
		STD	0300	0534	3492	2759	0005435	0227	14772								
119		OBS	T0378	0479	34898	2764			14762								
		STD	0400	0470	3490	2765	0004945	0279	14762								
119		OBS	0466	0444	34910	2769			14763								
		STD	0500	0431	3490	2770	0004604	0327	14763								
119		OBS	T0555	0413	34896	2771			14764								
		STD	0600	0404	3490	2772	0004418	0372	14768								
		STD	0700	0387	3490	2774	0004312	0416	14777								
119		OBS	0751	0380	34899	2775			14783								
		STD	0800	0374	3490	2775	0004253	0459	14789								
		STD	0900	0364	3490	2776	0004240	0501	14801								
119		OBS	T0941	0361	34895	2776			14807								
		STD	1000	0360	3490	2777	0004248	0544	14816								
		STD	1100	0359	3491	2778	0004245	0586	14833								
		STD	1200	0357	3491	2778	0004304	0629	14848								
		STD	1300	0354	3492	2779	0004275	0672	14864								
		STD	1400	0351	3492	2779	0004318	0715	14880								
119		OBS	T1469	0349	34926	2780			14890								
		STD	1500	0347	3493	2780	0004303	0758	14895								
		STD	1750	0330	3493	2782	0004282	0865	14930								
		STD	2000	0319	3492	2783	0004323	0973	14968								
144		OBS	T2104	0315	34923	2783			14984								
		STD	2500	0311	3492	2784	0004551	1195	15050								
144		OBS	T2649	0309	34925	2784			15075								
		STD	3000	0302	3497	2788	0004408	1418	15133								
144		OBS	3183	0300	34975	2789			15164								
144		OBS	T3350	0300	34972	2788			15193								

TABLE IV—Continued

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPLICATE	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYP	CLOUD CODES AMT		NODC STATION NUMBER
31	1143	CC	52448N	035346W		184	25	08	18	125	1967	C14	015	3511	14	26	1				6	6		0015

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		19	S07	186	117	111	7	14	

MESSENGER TIME & HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPEC. VOLUME ANOM. ALT.=810⁷	DYN. M. Σ Δ D 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	NODC
		STD	0000	1156	3477	2651	0015315	0000	14957								
125		OBS	0000	1156	34767	2651			14957								
125		OBS	0009	1152	34766	2652			14957								
		STD	0010	1151	3477	2652	0015243	0015	14956								
		STD	0020	1137	3477	2655	0014991	0030	14953								
125		OBS	0028	1126	34776	2657			14951								
		STD	0030	1105	3479	2662	0014323	0045	14944								
125		OBS	0046	0945	34876	2697			14890								
		STD	0050	0895	3488	2705	0010275	0070	14872								
125		OBS	0069	0732	34896	2731			14813								
		STD	0075	0723	3491	2734	0007609	0092	14811								
125		OBS	0091	0700	34930	2738			14805								
		STD	0100	0686	3493	2740	0006996	0110	14801								
		STD	0125	0659	3494	2744	0006649	0127	14794								
125		OBS	0138	0650	34937	2746			14793								
		STD	0150	0651	3495	2747	0006465	0144	14795								
125		OBS	T0184	0652	34980	2749			14802								
		STD	0200	0633	3497	2751	0006164	0175	14797								
		STD	0250	0580	3493	2754	0005860	0205	14783								
		STD	0300	0536	3491	2758	0005534	0234	14773								
125		OBS	T0370	0490	34894	2762			14766								
		STD	0400	0478	3490	2764	0005038	0287	14766								
125		OBS	0461	0457	34910	2767			14767								
		STD	0500	0448	3492	2769	0004650	0335	14770								
125		OBS	T0554	0435	34931	2772			14774								
		STD	0600	0423	3493	2773	0004390	0380	14776								
		STD	0700	0400	3492	2774	0004297	0424	14783								
125		OBS	0745	0391	34913	2775			14787								
		STD	0800	0382	3491	2775	0004256	0467	14792								
		STD	0900	0367	3490	2776	0004245	0509	14802								
125		OBS	T0942	0362	34893	2776			14807								
		STD	1000	0360	3490	2777	0004274	0552	14816								
		STD	1100	0357	3490	2777	0004277	0594	14832								
		STD	1200	0354	3491	2778	0004271	0637	14847								
		STD	1300	0351	3492	2779	0004270	0680	14863								
		STD	1400	0348	3492	2780	0004269	0723	14878								
125		OBS	T1441	0347	34925	2780			14885								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPLICATE	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYP	CLOUD CODES AMT		NODC STATION NUMBER
31	1143	CC	5246 N	03531 W		184	25	08	19	133	1967	C14	016	3383	19	22	2			41	7	7		0016

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		18	S12	301	133	128		14	

MESSENGER TIME & HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY=810⁷	DYN. M. Σ Δ D 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	NODC
		STD	0000	1181	3473	2644	0016018	0000	14965								
132		OBS	0000	1181	34732	2644			14965								
		STD	0010	1177	3474	2645	0015912	0016	14965								
132		OBS	0013	1170	34741	2646			14963								
		STD	0020	1129	3477	2656	0014865	0031	14950								
		STD	0030	1066	3481	2671	0013508	0046	14930								
132		OBS	0040	0997	34844	2685			14907								
		STD	0050	0907	3487	2702	0010534	0070	14876								
132		OBS	0063	0815	34905	2720			14844								
		STD	0075	0778	3493	2727	0008225	0093	14832								
132		OBS	0095	0712	34937	2737			14810								
		STD	0100	0690	3492	2739	0007131	0112	14802								
		STD	0125	0602	3486	2746	0006481	0129	14770								
132		OBS	0126	0599	34857	2746			14769								
		STD	0150	0568	3486	2750	0006113	0145	14761								
132		OBS	0189	0546	34860	2753			14758								
		STD	0200	0555	3488	2754	0005858	0175	14764								
		STD	0250	0584	3497	2757	0005612	0204	14785								
132		OBS	T0252	0585	34977	2757			14786								
		STD	0300	0553	3495	2759	0005443	0231	14781								
		STD	0400	0486	3491	2764	0005061	0284	14769								
		STD	0500	0420	3490	2771	0004475	0331	14758								
132		OBS	T0501	0419	34897	2771			14758								
		STD	0600	0405	3491	2773	0004333	0375	14769								
132		OBS	0624	0402	34912	2774			14771								
		STD	0700	0395	3492	2775	0004277	0419	14781								
132		OBS	T0746	0391	34917	2775			14787								
		STD	0800	0385	3492	2776	0004231	0461	14793								
		STD	0900	0375	3492	2777	0004197	0503	14806								
		STD	1000	0367	3492	2778	0004182	0545	14819								
132		OBS	1000	0367	34920	2778			14819								
		STD	1100	0363	3492	2778	0004197	0587	14834								
		STD	1200	0359	3493	2779	0004218	0629	14849								
132		OBS	T1256	0357	34927	2779			14858								
		STD	1300	0355	3493	2780	0004214	0671	14865								
		STD	1400	0352	3493	2780	0004257	0714	14880								
		STD	1500	0348	3493	2780	0004286	0756	14895								
		STD	1750	0340	3494	2782	0004303	0864	14934								
132		OBS	T1912	0335	34941	2783			14960								

Table IV—Continued

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DUPE DECK	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER.	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT	NODC STATION NUMBER
31	1143	CC	52455N	035241W		18	4	08	20	120	1967	C14	017	3475	13	27	1			28	X	7	0017

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		20	S15	152	133	128	6	14	

MESSENGR Time of HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\frac{1}{2}\Delta D$ DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	DUPE DECK
		STD	0000	1210	3471	2637	0016676	0000	14975								
120		OBS	0000	1210	34714	2637			14975								
120		OBS	0009	1208	34704	2636			14975								
		STD	0010	1207	3470	2637	0016712	0017	14975								
		STD	0020	1193	3471	2639	0016470	0033	14972								
120		OBS	0027	1183	34708	2641			14970								
		STD	0030	1146	3472	2649	0015556	0049	14957								
120		OBS	0043	0993	34753	2679			14905								
		STD	0050	0901	3478	2696	0011108	0076	14873								
120		OBS	0063	0774	34824	2719			14827								
		STD	0075	0723	3483	2727	0008204	0100	14810								
120		OBS	0086	0684	34835	2733			14796								
		STD	0100	0652	3484	2738	0007228	0119	14786								
		STD	0125	0604	3484	2744	0006655	0137	14771								
120		OBS	0129	0598	34843	2745			14769								
		STD	0150	0572	3485	2749	0006222	0153	14762								
120		OBS	T0172	0548	34857	2753			14756								
		STD	0200	0539	3487	2755	0005741	0183	14757								
		STD	0250	0522	3490	2759	0005378	0211	14759								
		STD	0300	0503	3491	2762	0005140	0237	14760								
120		OBS	T0331	0490	34915	2764			14759								
		STD	0400	0456	3491	2768	0004679	0286	14757								
120		OBS	0415	0450	34914	2769			14757								
		STD	0500	0432	3493	2772	0004394	0331	14764								
120		OBS	T0501	0432	34931	2772			14764								
		STD	0600	0416	3493	2774	0004302	0375	14773								
120		OBS	0682	0403	34930	2775			14782								
		STD	0700	0400	3493	2775	0004223	0417	14783								
		STD	0800	0384	3491	2775	0004279	0460	14793								
120		OBS	T0848	0378	34908	2776			14798								
		STD	0900	0376	3491	2776	0004278	0503	14806								
		STD	1000	0371	3491	2777	0004302	0546	14821								
		STD	1100	0366	3491	2777	0004317	0589	14836								
		STD	1200	0362	3491	2778	0004338	0632	14850								
		STD	1300	0357	3491	2778	0004355	0675	14865								
120		OBS	T1340	0355	34915	2779			14871								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DUPE DECK	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER.	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT	NODC STATION NUMBER
31	1143	CC	52410N	035250W		18	4	08	21	143	1967	C14	018	3475	18	05	1			63	8	4	0018

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		35	S19	159	106	089	7	14	

MESSENGR Time of HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\frac{1}{2}\Delta D$ DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	DUPE DECK
		STD	0000	1217	3470	2634	0016906	0000	14977								
142		OBS	0000	1217	34700	2634			14977								
		STD	0010	1216	3471	2635	0016869	0017	14978								
142		OBS	0011	1214	34707	2635			14978								
		STD	0020	1147	3475	2651	0015329	0033	14956								
		STD	0030	1065	3480	2670	0013565	0047	14930								
142		OBS	0037	1003	34824	2683			14909								
		STD	0050	0863	3488	2710	0009790	0071	14860								
142		OBS	0058	0796	34898	2722			14836								
		STD	0075	0714	3490	2734	0007561	0092	14807								
142		OBS	0088	0673	34905	2740			14793								
		STD	0100	0664	3493	2743	0006713	0110	14792								
142		OBS	0118	0648	34945	2747			14789								
		STD	0125	0637	3493	2747	0006402	0127	14785								
		STD	0150	0601	3490	2749	0006206	0142	14775								
142		OBS	0178	0568	34871	2751			14765								
		STD	0200	0549	3486	2753	0005935	0173	14761								
142		OBS	T0235	0521	34854	2756			14756								
		STD	0250	0516	3486	2757	0005605	0202	14756								
		STD	0300	0498	3488	2760	0005305	0229	14757								
		STD	0400	0467	3491	2766	0004836	0280	14761								
142		OBS	T0472	0447	34914	2769			14765								
		STD	0500	0440	3491	2769	0004632	0327	14767								
142		OBS	0588	0420	34901	2771			14773								
		STD	0600	0418	3490	2771	0004541	0373	14774								
		STD	0700	0399	3491	2774	0004337	0417	14783								
142		OBS	T0707	0398	34914	2774			14783								
		STD	0800	0387	3491	2775	0004321	0461	14794								
		STD	0900	0376	3490	2776	0004327	0504	14806								
142		OBS	0950	0372	34900	2776			14813								
		STD	1000	0369	3490	2776	0004332	0547	14820								
		STD	1100	0362	3491	2777	0004296	0590	14834								
142		OBS	T1195	0357	34913	2778			14848								
		STD	1200	0357	3491	2778	0004282	0633	14848								
		STD	1300	0351	3491	2779	0004290	0676	14863								
		STD	1400	0347	3491	2779	0004327	0719	14878								
		STD	1500	0342	3491	2780	0004342	0762	14893								
		STD	1750	0333	3491	2780	0004423	0872	14931								
142		OBS	T1825	0331	34911	2781			14943								

TABLE IV—Continued

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	QUAD NO.	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR 1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER.	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYP	CLOUD CODES AMT		NODC STATION NUMBER
311143	CC	52461N	035301W		184	25	08	22	123	1967	C14	019		3475	17	15	2			50	X	7		0019

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		13	S27	085	111	111	7	14	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S °/₀₀	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^8	$\Sigma\Delta D$ DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_4-Si µg-at/l	pH	QUAL
		STD	0000	1187	3470	2640	0016377	0000	14966								
	123	OBS	0000	1187	34698	2640			14966								
		STD	0010	1185	3471	2641	0016312	0016	14968								
	123	OBS	0012	1185	34708	2641			14968								
		STD	0020	1140	3472	2650	0015426	0032	14954								
		STD	0030	1054	3473	2667	0013896	0047	14925								
	123	OBS	0034	1010	34745	2676			14910								
		STD	0050	0760	3481	2720	0008820	0070	14820								
	123	OBS	0053	0728	34819	2726			14808								
		STD	0075	0661	3486	2738	0007157	0090	14786								
	123	OBS	0079	0654	34866	2740			14784								
		STD	0100	0647	3492	2745	0006567	0107	14785								
	123	OBS	0105	0646	34936	2746			14786								
		STD	0125	0655	3497	2748	0006337	0123	14793								
		STD	0150	0661	3500	2749	0006230	0139	14800								
	123	OBS	0158	0662	35008	2750			14802								
		STD	0200	0659	3504	2753	0005984	0169	14808								
	123	OBS	T0210	0657	35047	2754			14809								
		STD	0250	0604	3501	2758	0005567	0198	14794								
		STD	0300	0548	3496	2761	0005308	0225	14779								
		STD	0400	0466	3491	2766	0004824	0276	14761								
	123	OBS	T0425	0452	34900	2767			14759								
		STD	0500	0429	3490	2769	0004610	0323	14762								
	123	OBS	0529	0422	34894	2770			14754								
		STD	0600	0410	3490	2772	0004479	0368	14770								
	123	OBS	T0630	0405	34900	2772			14773								
		STD	0700	0396	3490	2773	0004377	0413	14781								
		STD	0800	0385	3491	2775	0004305	0456	14793								
	123	OBS	0845	0380	34910	2776			14799								
		STD	0900	0375	3490	2775	0004338	0499	14806								
		STD	1000	0367	3490	2776	0004330	0543	14819								
	123	OBS	T1072	0362	34891	2776			14829								
		STD	1100	0360	3489	2776	0004398	0586	14833								
		STD	1200	0354	3489	2777	0004393	0630	14847								
		STD	1300	0349	3489	2778	0004405	0674	14862								
		STD	1400	0345	3490	2778	0004420	0718	14877								
		STD	1500	0341	3490	2779	0004440	0763	14892								
	123	OBS	T1673	0338	34900	2779			14920								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	QUAD NO.	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR 1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER.	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYP	CLOUD CODES AMT		NODC STATION NUMBER
311143	CC	52415N	03536 W		184	25	08	23	122	1967	C14	020		3109	16	15	3				6	6		0020

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		36	S18	146	117	106	7	14	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S °/₀₀	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^8	$\Sigma\Delta D$ DYN. M x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_4-Si µg-at/l	pH	QUAL
		STD	0000	1208	3470	2636	0016757	0000	14974								
	122	OBS	0000	1208	34698	2636			14974								
		STD	0010	1206	3467	2634	0016944	0017	14974								
	122	OBS	0010	1206	34671	2634			14974								
		STD	0020	1203	3468	2635	0016863	0034	14975								
		STD	0030	1201	3469	2636	0016774	0051	14976								
	122	OBS	0033	1200	34690	2637			14976								
		STD	0050	0884	3484	2704	0010404	0078	14867								
	122	OBS	0052	0858	34855	2709			14858								
		STD	0075	0738	3485	2727	0008260	0101	14816								
	122	OBS	0078	0725	34849	2729			14811								
		STD	0100	0647	3484	2738	0007200	0120	14784								
	122	OBS	0104	0636	34832	2739			14780								
		STD	0125	0600	3482	2743	0006733	0138	14769								
		STD	0150	0566	3481	2747	0006425	0154	14759								
	122	OBS	0156	0560	34810	2747			14758								
		STD	0200	0537	3483	2752	0006015	0185	14756								
	122	OBS	T0209	0532	34831	2752			14755								
		STD	0250	0514	3485	2756	0005656	0215	14755								
		STD	0300	0494	3487	2760	0005333	0242	14755								
		STD	0400	0459	3489	2766	0004893	0293	14758								
	122	OBS	T0421	0452	34896	2767			14758								
		STD	0500	0430	3489	2769	0004667	0341	14762								
	122	OBS	0522	0425	34885	2769			14764								
		STD	0600	0415	3489	2770	0004595	0387	14772								
	122	OBS	T0626	0412	34896	2771			14776								
		STD	0700	0401	3490	2772	0004494	0433	14783								
		STD	0800	0388	3489	2774	0004451	0477	14794								
	122	OBS	0837	0384	34892	2774			14799								
		STD	0900	0379	3489	2774	0004436	0522	14807								
		STD	1000	0372	3489	2775	0004434	0566	14821								
	122	OBS	T1052	0368	34895	2776			14828								
		STD	1100	0365	3490	2776	0004391	0610	14835								
		STD	1200	0359	3490	2777	0004402	0654	14849								
		STD	1300	0354	3491	2778	0004349	0698	14864								
		STD	1400	0350	3491	2779	0004379	0742	14879								
		STD	1500	0347	3492	2780	0004347	0785	14895								
	122	OBS	T1608	0344	34929	2781			14912								

Table IV—Continued

REFERENCE: CSHP NO.	REFERENCE: ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DUPE	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT		NODC STATION NUMBER
311143	CC	52468N	035232W		184	25	08	24	127	1967	C14	021		3109	17	20	2			50	5	6		0021

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP °C: DRY BULB	AIR TEMP °C: WET BULB	VIS CODE	NO OBS DEPTHS	SPECIAL OBSERVATIONS
		31	S20	044	111	106	7	14	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta D$ DYN. M $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_3-N µg-at l	SiO_4-Si µg-at/l	pH	SCC
		STD	0000	1147	3474	2650	0015369	0000	14953								
	127	OBS	0000	1147	34738	2650			14953								
		STD	0010	1146	3477	2653	0015147	0015	14955								
	127	OBS	0010	1146	34769	2653			14955								
		STD	0020	1143	3477	2654	0015120	0030	14955								
		STD	0030	1139	3477	2654	0015092	0045	14956								
	127	OBS	0034	1138	34767	2654			14956								
		STD	0050	0986	3483	2686	0012080	0073	14905								
	127	OBS	0054	0951	34846	2693			14893								
		STD	0075	0788	3488	2722	0008739	0099	14835								
	127	OBS	0082	0750	34893	2728			14822								
		STD	0100	0703	3492	2737	0007305	0119	14807								
	127	OBS	0111	0680	34927	2741			14800								
		STD	0125	0663	3493	2744	0006739	0136	14796								
		STD	0150	0644	3494	2747	0006455	0153	14792								
	127	OBS	0166	0639	34956	2749			14793								
		STD	0200	0660	3502	2751	0006146	0184	14808								
	127	OBS	T0223	0668	35051	2752			14815								
		STD	0250	0641	3503	2754	0005898	0214	14809								
		STD	0300	0595	3500	2758	0005598	0243	14798								
		STD	0400	0524	3496	2764	0005141	0297	14785								
	127	OBS	T0443	0502	34956	2766			14783								
		STD	0500	0485	3496	2768	0004781	0346	14786								
	127	OBS	0556	0468	34965	2771			14788								
		STD	0600	0454	3495	2771	0004604	0393	14790								
	127	OBS	T0670	0434	34933	2772			14793								
		STD	0700	0426	3492	2772	0004600	0439	14794								
		STD	0800	0404	3490	2772	0004586	0485	14801								
	127	OBS	0899	0387	34892	2774			14810								
		STD	0900	0387	3489	2774	0004538	0531	14811								
		STD	1000	0377	3491	2776	0004375	0576	14823								
		STD	1100	0368	3493	2778	0004213	0618	14837								
	127	OBS	T1129	0366	34934	2779			14841								
		STD	1200	0361	3494	2780	0004146	0660	14850								
		STD	1300	0354	3494	2781	0004099	0701	14864								
		STD	1400	0348	3495	2782	0004061	0742	14879								
		STD	1500	0343	3496	2783	0004040	0783	14894								
	127	OBS	T1736	0335	34969	2785			14930								

TABLE V.—Observed and interpolated oceanographic data from stations taken by USCGC BIBB, at Ocean Station CHARLIE, 26 August—16 September 1967, prepared from NODC Listing No. 31–1159.

REFERENCE: CTRY CODE	REFERENCE: ID NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDICES	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT	NODC STATION NUMBER
311159	BX	5242 N	03538 W		184	25	08	26	133	1967	C15	001		3566	15	26	2				8	4	0001

WATER: COLOR CODE	WATER: TRANS (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP °C: DRY BULB	AIR TEMP °C: WET BULB	VIS CODE	NO OBS DEPTHS	SPECIAL OBSERVATIONS
		26	S10	061	161	161	7	14	

MESSENGR TIME & HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10⁻⁸	ΔD DYN. M. E 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SCC
		STD	0000	1103	3485	2667	0013754	0000	14939								
133		OBS	0000	1103	34853	2667			14939								
		STD	0010	1093	3487	2671	0013465	0014	14937								
133		OBS	0010	1093	34872	2671			14937								
		STD	0020	1089	3487	2671	0013471	0027	14938								
		STD	0030	1086	3486	2671	0013483	0041	14938								
133		OBS	0032	1085	34858	2671			14938								
		STD	0050	0850	3497	2719	0008929	0063	14856								
133		OBS	0052	0832	34976	2723			14850								
		STD	0075	0758	3497	2734	0007616	0084	14825								
133		OBS	0078	0750	34974	2735			14822								
		STD	0100	0701	3497	2742	0006884	0102	14807								
133		OBS	0103	0696	34973	2742			14806								
		STD	0125	0681	3498	2745	0006575	0119	14803								
		STD	0150	0668	3500	2748	0006345	0135	14803								
133		OBS	0155	0666	35000	2749			14803								
		STD	0200	0660	3502	2751	0006146	0166	14808								
133		OBS	T0208	0658	35024	2752			14808								
		STD	0250	0617	3501	2756	0005756	0196	14799								
		STD	0300	0575	3499	2760	0005441	0224	14790								
		STD	0400	0515	3495	2764	0005129	0277	14782								
133		OBS	T0415	0509	34941	2764			14781								
		STD	0500	0490	3497	2768	0004775	0326	14788								
133		OBS	0517	0486	34978	2770			14789								
		STD	0600	0466	3498	2772	0004562	0373	14795								
133		OBS	T0617	0461	34974	2772			14796								
		STD	0700	0428	3496	2774	0004349	0417	14795								
		STD	0800	0400	3494	2776	0004273	0460	14800								
133		OBS	0824	0395	34931	2776			14802								
		STD	0900	0390	3493	2776	0004270	0503	14812								
		STD	1000	0382	3494	2778	0004242	0546	14826								
133		OBS	T1031	0380	34937	2778			14830								
		STD	1100	0375	3494	2779	0004217	0588	14840								
		STD	1200	0367	3494	2779	0004205	0630	14853								
		STD	1300	0360	3495	2781	0004129	0672	14867								
		STD	1400	0352	3495	2782	0004111	0713	14880								
		STD	1500	0344	3496	2783	0004016	0754	14894								
133		OBS	T1529	0342	34962	2784			14898								

REFERENCE: CTRY CODE	REFERENCE: ID NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDICES	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT	NODC STATION NUMBER
311159	BX	5242 N	03518 W		184	25	08	27	137	1967	C15	002		3292	12	26	2			10	6	8	0002

WATER: COLOR CODE	WATER: TRANS (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP °C: DRY BULB	AIR TEMP °C: WET BULB	VIS CODE	NO OBS DEPTHS	SPECIAL OBSERVATIONS
		23	S15	115	139	122	6	14	

MESSENGR TIME & HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10⁻⁸	ΔD DYN. M. E 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SCC
		STD	0000	1117	3482	2662	0014232	0000	14944								
137		OBS	0000	1117	34821	2662			14944								
137		OBS	0008	1117	34820	2662			14945								
		STD	0010	1117	3482	2662	0014261	0014	14945								
		STD	0020	1116	3482	2662	0014277	0029	14947								
137		OBS	0027	1116	34820	2663			14948								
		STD	0030	1102	3483	2665	0014014	0043	14943								
137		OBS	0042	1022	34844	2681			14917								
		STD	0050	0919	3487	2701	0010720	0067	14881								
137		OBS	0064	0786	34900	2724			14833								
		STD	0075	0732	3491	2732	0007732	0090	14814								
137		OBS	0084	0698	34921	2738			14803								
		STD	0100	0681	3493	2741	0006930	0109	14798								
		STD	0125	0653	3495	2746	0006461	0126	14792								
137		OBS	0126	0652	34953	2747			14792								
		STD	0150	0658	3499	2749	0006266	0141	14798								
137		OBS	T0168	0660	35016	2751			14803								
		STD	0200	0641	3500	2752	0006045	0172	14800								
		STD	0250	0610	3499	2755	0005793	0202	14796								
		STD	0300	0580	3498	2758	0005556	0230	14792								
137		OBS	T0330	0562	34977	2760			14790								
		STD	0400	0520	3498	2766	0004951	0283	14784								
137		OBS	0407	0516	34979	2766			14784								
137		OBS	0484	0470	34964	2770			14777								
		STD	0500	0464	3496	2771	0004539	0330	14777								
		STD	0600	0431	3495	2773	0004334	0375	14780								
137		OBS	0637	0420	34947	2774			14781								
		STD	0700	0404	3494	2776	0004194	0417	14785								
137		OBS	T0789	0385	34931	2777			14792								
		STD	0800	0384	3493	2777	0004127	0459	14793								
		STD	0900	0378	3493	2778	0004132	0500	14807								
		STD	1000	0371	3493	2778	0004135	0541	14821								
		STD	1100	0365	3493	2779	0004134	0583	14835								
137		OBS	T1198	0358	34935	2780			14849								

TABLE V.—Continued

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPLICATE	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR 1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER.	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
311	159	Bx	5245 N	03552 W		184	25	08	28	130	1967	C15	003	5392	10	24	1			50	7	8		0003

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP °C DRY BULB	AIR TEMP °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		22	S10	200	133	128	6	14	

MESSENGER TIME OF OBS. HR 1/10	CAST NO	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\frac{1}{2}\Delta D$ DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	
		STD	0000	1120	3477	2658	0014645	0000	14944								
130		OBS	0000	1120	34772	2658			14944								
130		OBS	0006	1118	34773	2659			14944								
		STD	0010	1114	3477	2659	0014550	0015	14944								
		STD	0020	1107	3478	2661	0014438	0029	14943								
130		OBS	0021	1106	34776	2661			14943								
		STD	0030	1103	3478	2662	0014377	0043	14943								
130		OBS	0035	1102	34780	2662			14943								
		STD	0050	0907	3488	2703	0010460	0068	14876								
130		OBS	0053	0877	34889	2709			14866								
130		OBS	0071	0760	34926	2730			14825								
		STD	0075	0748	3493	2732	0007804	0091	14821								
		STD	0100	0690	3496	2742	0006833	0109	14803								
130		OBS	0107	0679	34967	2744			14799								
		STD	0125	0666	3497	2746	0006480	0126	14797								
130		OBS	T0143	0656	34971	2748			14796								
		STD	0150	0656	3498	2748	0006315	0142	14798								
		STD	0200	0656	3503	2752	0006024	0173	14807								
		STD	0250	0657	3506	2755	0005884	0203	14815								
130		OBS	T0280	0657	35063	2755			14820								
		STD	0300	0655	3506	2755	0005936	0232	14823								
130		OBS	0346	0632	35042	2756			14821								
		STD	0400	0567	3498	2760	0005527	0290	14803								
130		OBS	0409	0558	34969	2760			14801								
		STD	0500	0488	3496	2768	0004825	0341	14787								
130		OBS	0530	0469	34957	2770			14784								
		STD	0600	0434	3494	2772	0004443	0388	14781								
130		OBS	T0653	0412	34929	2774			14781								
		STD	0700	0406	3493	2774	0004311	0431	14786								
		STD	0800	0392	3492	2775	0004288	0474	14797								
		STD	0900	0379	3492	2776	0004267	0517	14808								
		STD	1000	0366	3491	2777	0004234	0560	14819								
130		OBS	T1043	0360	34909	2778			14823								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPLICATE	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR 1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER.	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
311	159	Bx	5247 N	03527 W		184	25	08	29	137	1967	C15	004	3018	19	23	2					3	8	0004

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP °C DRY BULB	AIR TEMP °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		21	S14	142	133	128	6	14	

MESSENGER TIME OF OBS. HR 1/10	CAST NO	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\frac{1}{2}\Delta D$ DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	
		STD	0000	1110	3484	2665	0013941	0000	14941								
137		OBS	0000	1110	34844	2665			14941								
		STD	0010	1110	3484	2665	0013972	0014	14943								
137		OBS	0014	1110	34842	2665			14944								
		STD	0020	1093	3484	2668	0013708	0028	14939								
		STD	0030	1066	3484	2673	0013251	0041	14930								
137		OBS	0041	1035	34846	2679			14921								
		STD	0050	0929	3490	2701	0010654	0065	14885								
137		OBS	0063	0811	34948	2724			14843								
		STD	0075	0757	3494	2731	0007855	0088	14824								
137		OBS	0094	0695	34926	2739			14803								
		STD	0100	0686	3493	2740	0007003	0107	14801								
		STD	0125	0660	3494	2745	0006625	0124	14795								
137		OBS	0126	0659	34942	2745			14794								
		STD	0150	0659	3497	2747	0006433	0140	14799								
137		OBS	0189	0660	35018	2751			14806								
		STD	0200	0660	3503	2752	0006069	0172	14808								
		STD	0250	0659	3506	2754	0005914	0201	14816								
137		OBS	T0253	0659	35061	2754			14817								
		STD	0300	0615	3504	2759	0005558	0230	14807								
		STD	0400	0537	3499	2764	0005078	0283	14791								
137		OBS	T0497	0483	34955	2768			14785								
		STD	0500	0482	3495	2768	0004827	0333	14785								
		STD	0600	0450	3493	2770	0004706	0381	14788								
137		OBS	0624	0443	34928	2770			14789								
		STD	0700	0421	3493	2773	0004467	0426	14792								
137		OBS	0747	0410	34935	2775			14795								
		STD	0800	0401	3493	2775	0004329	0470	14800								
		STD	0900	0387	3492	2776	0004330	0514	14811								
137		OBS	0995	0376	34913	2776			14822								
		STD	1000	0376	3491	2776	0004341	0557	14823								
		STD	1100	0369	3492	2778	0004277	0600	14837								
		STD	1200	0363	3493	2779	0004222	0643	14851								
137		OBS	1229	0361	34933	2779			14855								
		STD	1300	0356	3494	2781	0004153	0684	14865								
		STD	1400	0349	3494	2781	0004147	0726	14879								
		STD	1500	0342	3495	2783	0004064	0767	14893								
		STD	1750	0323	3495	2785	0004008	0868	14927								
137		OBS	T1856	0315	34955	2786			14942								

TABLE V.—Continued

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	QUADRANT	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR 1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
311159	Bx	5249 N	03526 W		184	25	08	30	130		1967	C15	005	3428	14	22	2			44	7	8		0005

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		22	S03	139	150	144	6	14	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_4-Si µg-at/l	pH	CODE
		STD	0000	1125	3481	2660	0014460	0000	14946								
130		OBS	0000	1125	34809	2660			14946								
		STD	0010	1107	3482	2664	0014112	0014	14942								
130		OBS	0010	1107	34817	2664			14942								
		STD	0020	1104	3482	2665	0014053	0028	14942								
		STD	0030	1100	3484	2667	0013891	0042	14943								
130		OBS	0030	1100	34837	2667			14943								
130		OBS	0049	0910	34877	2703			14877								
		STD	0050	0905	3488	2704	0010429	0067	14876								
130		OBS	0073	0792	34956	2727			14838								
		STD	0075	0781	3495	2728	0008119	0090	14834								
130		OBS	0096	0690	34901	2738			14801								
		STD	0100	0687	3491	2739	0007165	0109	14801								
		STD	0125	0666	3492	2742	0006853	0126	14797								
130		OBS	0145	0649	34932	2746			14793								
		STD	0150	0644	3493	2746	0006530	0143	14792								
130		OBS	T0193	0606	34923	2751			14784								
		STD	0200	0603	3493	2751	0006079	0175	14784								
		STD	0250	0582	3494	2755	0005810	0204	14784								
		STD	0300	0561	3495	2758	0005542	0233	14784								
130		OBS	0384	0525	34959	2763			14783								
		STD	0400	0517	3496	2764	0005064	0286	14782								
130		OBS	0478	0484	34959	2768			14782								
		STD	0500	0478	3496	2769	0004705	0335	14783								
130		OBS	T0572	0458	34961	2771			14787								
		STD	0600	0450	3496	2772	0004483	0381	14788								
		STD	0700	0424	3495	2774	0004354	0425	14794								
130		OBS	0761	0411	34939	2775			14798								
		STD	0800	0404	3493	2775	0004364	0468	14802								
		STD	0900	0388	3493	2776	0004268	0512	14812								
130		OBS	T0950	0381	34923	2777			14817								
		STD	1000	0374	3493	2778	0004214	0554	14822								
		STD	1100	0363	3494	2779	0004102	0596	14835								
		STD	1200	0354	3495	2781	0004010	0636	14848								
		STD	1300	0348	3495	2782	0003952	0676	14862								
		STD	1400	0344	3496	2784	0003916	0715	14877								
130		OBS	T1428	0343	34965	2784			14882								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	QUADRANT	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR 1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
311159	Bx	5232 N	03518 W		184	25	08	31	144		1967	C15	006	3063	13	22	2			40	7	8		0006

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		23	S20	125			6	14	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_4-Si µg-at/l	pH	CODE
		STD	0000	1188	3471	2641	0016299	0000	14967								
144		OBS	0000	1188	34711	2641			14967								
144		OBS	0009	1187	34709	2641			14968								
		STD	0010	1187	3471	2641	0016317	0016	14968								
		STD	0020	1185	3471	2641	0016309	0033	14969								
144		OBS	0027	1183	34708	2641			14970								
		STD	0030	1153	3473	2649	0015607	0049	14960								
144		OBS	0040	1049	34793	2672			14926								
		STD	0050	0912	3486	2701	0010685	0075	14878								
144		OBS	0063	0785	34932	2726			14833								
		STD	0075	0735	3494	2734	0007550	0098	14816								
144		OBS	0086	0700													
		STD	0100	0681	3497	2744	0006639	0115	14799								
		STD	0125	0657	3498	2748	0006288	0132	14794								
144		OBS	0126	0656	34981	2748			14794								
		STD	0150	0653	3499	2750	0006200	0147	14797								
144		OBS	T0181	0646	34994	2751			14799								
		STD	0200	0636	3499	2752	0006055	0178	14798								
		STD	0250	0610	3497	2754	0005941	0208	14796								
		STD	0300	0582	3497	2757	0005656	0237	14793								
144		OBS	T0342	0558	34962	2760			14790								
		STD	0400	0522	3496	2764	0005087	0291	14785								
144		OBS	0418	0513	34964	2765			14784								
		STD	0500	0482	3496	2769	0004723	0340	14785								
144		OBS	T0508	0479	34964	2769			14785								
		STD	0600	0456	3496	2772	0004554	0386	14790								
144		OBS	0673	0438	34952	2773			14795								
		STD	0700	0431	3495	2773	0004436	0431	14797								
		STD	0800	0408	3494	2775	0004337	0475	14803								
144		OBS	0840	0400	34935	2776			14807								
		STD	0900	0389	3494	2777	0004236	0518	14812								
		STD	1000	0375	3494	2778	0004152	0560	14823								
		STD	1100	0364	3494	2780	0004099	0601	14835								
		STD	1200	0358	3494	2780	0004103	0642	14849								
144		OBS	T1272	0356	34940	2781			14860								

TABLE V.—Continued

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DUPLICATE RECORD	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT	NODC STATION NUMBER
311159	BX	5237 N		03524 W		184	25	09	01	129	1967	C15	007	3475	16	30	2				6	8	0007

WATER COLOR CODE	WATER TRANSP. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		28	S05	200	117	111	6	14	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA–T	SPECIFIC VOLUME ANOMALY–10^8	$\Sigma\Delta D$ DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4–P µg-at/l	TOTAL–P µg-at/l	NO_2–N µg-at/l	NO_3–N µg-at/l	SiO_4–Si µg-at/l	pH	CODE
		STD	0000	1176	3473	2645	0015929	0000	14963								
129		OBS	0000	1176	34732	2645			14963								
		STD	0010	1174	3474	2646	0015862	0016	14964								
129		OBS	0011	1174	34743	2646			14964								
		STD	0020	1075	3477	2666	0013933	0031	14931								
		STD	0030	0972	3479	2686	0012107	0044	14896								
129		OBS	0034	0933	34802	2693			14882								
		STD	0050	0784	3482	2718	0009083	0065	14829								
129		OBS	0053	0764	34829	2721			14822								
		STD	0075	0704	3487	2733	0007650	0086	14803								
129		OBS	0080	0694	34876	2735			14800								
		STD	0100	0669	3490	2740	0007002	0104	14793								
129		OBS	0105	0662	34908	2742			14792								
		STD	0125	0623	3488	2745	0006596	0121	14779								
		STD	0150	0585	3487	2749	0006232	0137	14768								
129		OBS	0158	0576	34865	2750			14765								
		STD	0200	0553	3488	2754	0005834	0167	14763								
129		OBS	T0212	0547	34882	2755			14763								
		STD	0250	0529	3489	2757	0005550	0196	14762								
		STD	0300	0507	3490	2761	0005284	0223	14761								
		STD	0400	0468	3491	2767	0004818	0273	14762								
129		OBS	T0420	0461	34917	2768			14762								
		STD	0500	0434	3492	2771	0004511	0320	14764								
129		OBS	0526	0427	34917	2771			14766								
		STD	0600	0411	3492	2773	0004334	0364	14771								
129		OBS	T0635	0404	34920	2774			14774								
		STD	0700	0396	3492	2775	0004251	0407	14782								
		STD	0800	0386	3492	2776	0004228	0450	14794								
129		OBS	0838	0382	34916	2776			14799								
		STD	0900	0376	3492	2776	0004238	0492	14806								
		STD	1000	0367	3491	2777	0004227	0534	14819								
129		OBS	T1044	0364	34913	2778			14825								
		STD	1100	0360	3492	2778	0004213	0577	14833								
		STD	1200	0353	3492	2779	0004175	0618	14847								
		STD	1300	0348	3493	2780	0004157	0660	14862								
		STD	1400	0343	3493	2781	0004138	0702	14876								
		STD	1500	0340	3494	2782	0004134	0743	14892								
129		OBS	T1584	0338	34941	2782			14905								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DUPLICATE RECORD	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT	NODC STATION NUMBER
311159	BX	5237 N		03521 W		184	25	09	03	133	1967	C15	008	2834	13	26	1				4	8	0008

WATER COLOR CODE	WATER TRANSP. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		22	S15	190	133	133	7	14	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA–T	SPECIFIC VOLUME ANOMALY–10^8	$\Sigma\Delta D$ DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4–P µg-at/l	TOTAL–P µg-at/l	NO_2–N µg-at/l	NO_3–N µg-at/l	SiO_4–Si µg-at/l	pH	CODE
		STD	0000	1160	3474	2648	0015555	0000	14958								
133		OBS	0000	1160	34744	2648			14958								
		STD	0010	1156	3475	2649	0015501	0016	14958								
133		OBS	0010	1156	34745	2649			14958								
		STD	0020	1150	3476	2652	0015308	0031	14958								
133		OBS	0027	1144	34764	2653			14957								
		STD	0030	1140	3477	2654	0015095	0046	14956								
133		OBS	0044	1123	34791	2659			14952								
		STD	0050	1029	3483	2679	0012785	0074	14920								
133		OBS	0065	0847	34900	2714			14857								
		STD	0075	0780	3490	2725	0008461	0101	14833								
133		OBS	0085	0726	34903	2733			14813								
		STD	0100	0684	3492	2740	0007051	0120	14800								
		STD	0125	0640	3495	2748	0006262	0137	14787								
133		OBS	0125	0640	34954	2748			14787								
		STD	0150	0639	3499	2751	0006018	0152	14791								
133		OBS	T0166	0636	35006	2753			14793								
		STD	0200	0610	3500	2756	0005646	0181	14788								
		STD	0250	0572	3500	2761	0005239	0208	14781								
		STD	0300	0536	3498	2764	0005012	0234	14774								
133		OBS	T0326	0518	34970	2765			14771								
		STD	0400	0467	3493	2768	0004687	0282	14762								
133		OBS	0411	0462	34922	2768			14761								
133		OBS	T0499	0439	34930	2771			14766								
		STD	0500	0439	3493	2771	0004472	0328	14766								
		STD	0600	0413	3493	2774	0004275	0372	14772								
133		OBS	0675	0398	34925	2775			14778								
		STD	0700	0395	3493	2775	0004202	0414	14781								
		STD	0800	0383	3493	2777	0004142	0456	14793								
133		OBS	0852	0378	34928	2777			14799								
		STD	0900	0374	3493	2778	0004119	0497	14806								
		STD	1000	0366	3493	2779	0004111	0539	14819								
		STD	1100	0360	3493	2779	0004117	0580	14833								
		STD	1200	0356	3493	2780	0004152	0621	14848								
		STD	1300	0354	3493	2780	0004209	0663	14864								
133		OBS	T1332	0354	34929	2780			14870								

TABLE V.—Continued

REFERENCE: CAST CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPLICATE	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR.1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT.	WAVE OBSERVATIONS: PER.	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYP.	CLOUD CODES: AMT.		NODC STATION NUMBER
311159	BX	5241 N	03522 W		184	25	09	04	150	1967	C15	009		2195	15	29	5				6	6		0009

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		29	S30	129	128	122	7	14	

MESSENGER TIME or HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\frac{1}{2}\Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	DOC
		STD	0000	1084	3485	2671	0013428	0000	14932								
150		OBS	0000	1084	34853	2671			14932								
		STD	0010	1084	3485	2670	0013510	0013	14934								
150		OBS	0010	1084	34845	2670			14934								
		STD	0020	1083	3485	2671	0013503	0027	14935								
		STD	0030	1082	3485	2671	0013487	0040	14936								
150		OBS	0031	1082	34850	2671			14937								
150		OBS	0048	0992	34850	2687			14907								
		STD	0050	0970	3486	2691	0011600	0066	14899								
150		OBS	0073	0777	34919	2726			14831								
		STD	0075	0771	3492	2727	0008200	0090	14829								
		STD	0100	0709	3494	2738	0007237	0110	14810								
150		OBS	0108	0693	34942	2740			14805								
		STD	0125	0663	3495	2745	0006627	0127	14796								
150		OBS	0145	0640	34948	2748			14790								
		STD	0150	0641	3496	2749	0006267	0143	14791								
150		OBS	T0193	0644	35018	2753			14800								
		STD	0200	0640	3502	2753	0005906	0173	14800								
		STD	0250	0612	3501	2757	0005647	0202	14797								
		STD	0300	0583	3501	2760	0005378	0230	14793								
150		OBS	T0394	0525	35000	2767			14785								
		STD	0400	0520	3500	2767	0004795	0281	14784								
150		OBS	0481	0468	34980	2772			14776								
		STD	0500	0461	3497	2772	0004430	0327	14776								
150		OBS	T0577	0435	34949	2773			14778								
		STD	0600	0425	3494	2773	0004339	0371	14777								
		STD	0700	0392	3492	2775	0004205	0413	14780								
150		OBS	0768	0376	34905	2776			14784								
		STD	0800	0374	3491	2776	0004194	0455	14789								
		STD	0900	0367	3491	2777	0004185	0497	14802								
150		OBS	T0953	0364	34909	2777			14810								
		STD	1000	0361	3491	2778	0004186	0539	14817								
		STD	1100	0356	3491	2778	0004210	0581	14831								
		STD	1200	0352	3492	2779	0004170	0623	14846								
		STD	1300	0348	3492	2780	0004202	0665	14862								
		STD	1400	0344	3493	2781	0004158	0707	14877								
150		OBS	T1496	0342	34936	2782			14892								

Table V.—Continued

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	QUADRANT	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR 1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT.	WAVE OBSERVATIONS: PER.	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT		NODC STATION NUMBER
311159	BX	5249	N 03531	W		184	25	09	05	136	1967	C15	010	3530	35	30	1				6	7		0010

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP °C: DRY BULB	AIR TEMP °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		30	S05	213	111	106	7	19	

MESSENGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^8	$\Sigma\Delta D$ DYN. M x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_4-Si µg-at/l	pH	SECCHI
		STD	0000	1081	3487	2672	0013281	0000	14931								
136		OBS	0000	1081	34866	2672			14931								
		STD	0010	1076	3486	2673	0013248	0013	14931								
136		OBS	0010	1076	34862	2673			14931								
		STD	0020	1075	3486	2673	0013254	0027	14932								
		STD	0030	1074	3486	2673	0013261	0040	14934								
136		OBS	0030	1074	34862	2673			14934								
136		OBS	0049	1072	34866	2674			14936								
		STD	0050	1058	3487	2677	0012976	0066	14931								
136		OBS	0074	0812	34973	2725			14846								
		STD	0075	0809	3497	2726	0008351	0093	14845								
136		OBS	0097	0752	34970	2734			14826								
		STD	0100	0746	3497	2735	0007515	0113	14825								
		STD	0125	0706	3498	2741	0006948	0131	14813								
136		OBS	0146	0684	34986	2745			14808								
		STD	0150	0684	3499	2745	0006610	0148	14809								
136		OBS	T0195	0677	35023	2749			14814								
		STD	0200	0675	3502	2749	0006324	0180	14814								
		STD	0250	0650	3502	2752	0006090	0211	14812								
		STD	0300	0622	3502	2756	0005827	0241	14809								
136		OBS	T0383	0567	35011	2762			14801								
		STD	0400	0551	3500	2764	0005177	0296	14797								
136		OBS	0476	0494	34968	2768			14786								
		STD	0500	0486	3497	2769	0004727	0345	14786								
136		OBS	T0571	0463	34971	2772			14789								
		STD	0600	0454	3497	2773	0004441	0391	14790								
		STD	0700	0424	3497	2776	0004176	0434	14794								
136		OBS	0760	0409	34975	2778			14798								
		STD	0800	0400	3496	2778	0004095	0476	14800								
		STD	0900	0381	3494	2778	0004112	0517	14809								
136		OBS	T0953	0372	34928	2778			14814								
		STD	1000	0370	3493	2778	0004137	0558	14821								
		STD	1100	0367	3494	2779	0004142	0599	14836								
		STD	1200	0362	3494	2780	0004122	0640	14851								
		STD	1300	0358	3495	2781	0004111	0682	14866								
		STD	1400	0353	3496	2782	0004087	0723	14881								
136		OBS	T1450	0350	34958	2783			14888								
		STD	1500	0347	3496	2783	0004043	0763	14895								
		STD	1750	0330	3498	2786	0003920	0863	14931								
		STD	2000	0314	3499	2789	0003779	0959	14966								
170		OBS	2010	0313	34990	2789			14968								
170		OBS	2498	0307	34995	2790			15049								
		STD	2500	0307	3500	2790	0003982	1153	15049								
170		OBS	T2994	0308	34995	2790			15135								
		STD	3000	0308	3499	2789	0004357	1362	15136								
170		OBS	T3427	0300	34983	2789			15207								
170		OBS	3527	0302													

TABLE V.—Continued

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DUPLICATE	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR. 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYP	CLOUD CODES: AMT		NODC STATION NUMBER
31	1159	BX	5244 N	03531 W		184	25	09	06	130	1967	C15	011	3749	15	31	2				6	7		0011

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP °C: DRY BULB	AIR TEMP °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		09	S12	136	133	128	7	14	

MESSENGER TIME OF OBS. HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10⁸	ΣΔD DYN. M. x 10⁴	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₃-N µg-at/l	NO₂-N µg-at/l	SiO₄-Si µg-at/l	pH	QUAL. CODE
		STD	0000	1089	3487	2671	0013373	0000	14934								
130		OBS	0000	1089	34872	2671			14934								
		STD	0010	1085	3487	2672	0013358	0013	14934								
130		OBS	0010	1085	34868	2672			14934								
		STD	0020	1080	3487	2673	0013281	0027	14934								
		STD	0030	1075	3487	2674	0013204	0040	14934								
130		OBS	0030	1075	34872	2674			14934								
130		OBS	0049	0961	34919	2697			14897								
		STD	0050	0948	3492	2700	0010805	0064	14892								
130		OBS	0073	0743	34964	2735			14819								
		STD	0075	0740	3497	2735	0007433	0087	14818								
130		OBS	0097	0709	34976	2741			14810								
		STD	0100	0707	3498	2741	0006912	0105	14809								
		STD	0125	0690	3499	2745	0006650	0122	14807								
130		OBS	0147	0680	35003	2747			14807								
		STD	0150	0680	3501	2747	0006408	0138	14807								
		STD	0200	0676	3504	2750	0006211	0169	14814								
130		OBS	T0209	0674	35044	2751			14815								
		STD	0250	0647	3503	2754	0005977	0200	14811								
		STD	0300	0615	3501	2756	0005781	0229	14806								
		STD	0400	0552	3499	2763	0005264	0285	14797								
130		OBS	T0413	0544	34983	2763			14796								
		STD	0500	0491	3497	2769	0004767	0335	14788								
130		OBS	0501	0490	34972	2769			14788								
		STD	0600	0463	3497	2772	0004556	0381	14794								
130		OBS	T0611	0460	34971	2772			14794								
		STD	0700	0433	3496	2774	0004408	0426	14797								
		STD	0800	0403	3494	2776	0004273	0470	14801								
130		OBS	0802	0402	34940	2776			14801								
		STD	0900	0389	3494	2777	0004206	0512	14812								
		STD	1000	0377	3494	2778	0004153	0554	14824								
130		OBS	T1026	0374	34936	2778			14827								
		STD	1100	0367	3494	2779	0004120	0595	14836								
		STD	1200	0359	3494	2780	0004107	0636	14850								
		STD	1300	0353	3494	2781	0004116	0677	14864								
		STD	1400	0349	3494	2781	0004147	0719	14879								
		STD	1500	0346	3494	2781	0004188	0760	14895								
130		OBS	T1532	0346	34944	2782			14900								

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DUPLICATE	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR. 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYP	CLOUD CODES: AMT		NODC STATION NUMBER
31	1159	BX	5253 N	03522 W		184	25	09	07	130	1967	C15	012	2837	14	16	1				7	6		0012

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP °C: DRY BULB	AIR TEMP °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		22	S12	112	139	133	7	14	

MESSENGER TIME OF OBS. HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10⁸	ΣΔD DYN. M. x 10⁴	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₃-N µg-at/l	NO₂-N µg-at/l	SiO₄-Si µg-at/l	pH	QUAL. CODE
		STD	0000	1077	3486	2673	0013250	0000	14930								
130		OBS	0000	1077	34861	2673			14930								
130		OBS	0009	1072	34869	2674			14930								
		STD	0010	1071	3487	2675	0013104	0013	14929								
		STD	0020	1063	3487	2676	0012992	0026	14928								
130		OBS	0029	1057	34872	2677			14928								
		STD	0030	1057	3487	2677	0012894	0039	14928								
130		OBS	0046	1052	34873	2678			14929								
		STD	0050	1008	3489	2687	0011995	0064	14914								
130		OBS	0069	0847	34962	2719			14858								
		STD	0075	0820	3497	2724	0008533	0090	14849								
130		OBS	0091	0760	34973	2733			14828								
		STD	0100	0745	3497	2735	0007501	0110	14824								
		STD	0125	0709	3497	2740	0007085	0128	14814								
130		OBS	0137	0695	34963	2742			14811								
		STD	0150	0686	3497	2744	0006785	0145	14809								
130		OBS	T0183	0665	34976	2747			14806								
		STD	0200	0657	3498	2748	0006404	0178	14806								
		STD	0250	0630	3500	2753	0005977	0209	14804								
		STD	0300	0602	3500	2757	0005687	0238	14801								
130		OBS	T0361	0566	35003	2762			14797								
		STD	0400	0538	3499	2764	0005090	0292	14791								
130		OBS	0450	0508	34980	2767			14787								
		STD	0500	0488	3497	2769	0004751	0342	14787								
130		OBS	T0538	0474	34969	2770			14788								
		STD	0600	0451	3496	2772	0004495	0388	14788								
		STD	0700	0419	3494	2774	0004369	0432	14791								
130		OBS	0714	0415	34939	2774			14792								
		STD	0800	0392	3492	2775	0004298	0475	14796								
130		OBS	T0892	0373	34904	2776			14804								
		STD	0900	0373	3491	2776	0004274	0518	14805								
		STD	1000	0369	3491	2777	0004253	0561	14820								
		STD	1100	0365	3492	2778	0004223	0603	14835								
		STD	1200	0360	3493	2779	0004198	0645	14850								
		STD	1300	0356	3494	2780	0004170	0687	14865								
		STD	1400	0352	3495	2781	0004134	0729	14880								
130		OBS	T1403	0352	34947	2781			14881								

TABLE V.—Continued

REFERENCE: CSTY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	QUAD	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR.1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT		NODC STATION NUMBER
311159	BX	5252 N	03519 W		184	25	09	08	132	1967	C15	013	2926	16	12	2				3	7		0013

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		12	S08	122	139	133	7	14	

MESSENGR TIME OF OBS HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	QUAL CODE
		STD	0000	1094	3487	2670	0013481	0000	14936								
132		OBS	0000	1094	34869	2670			14936								
		STD	0010	1088	3487	2671	0013402	0013	14936								
132		OBS	0010	1088	34869	2671			14936								
		STD	0020	1077	3487	2673	0013252	0027	14933								
		STD	0030	1068	3487	2675	0013129	0040	14932								
132		OBS	0033	1065	34865	2675			14931								
		STD	0050	1059	3487	2676	0013030	0066	14932								
132		OBS	0053	1050	34865	2678			14929								
		STD	0075	0905	3493	2707	0010109	0095	14880								
132		OBS	0078	0887	34932	2711			14874								
		STD	0100	0771	3497	2731	0007873	0118	14834								
132		OBS	0104	0755	34973	2734			14829								
		STD	0125	0722	3496	2738	0007307	0136	14819								
		STD	0150	0691	3495	2741	0007038	0154	14811								
132		OBS	0155	0686	34942	2741			14810								
		STD	0200	0661	3499	2749	0006382	0188	14808								
132		OBS	T0208	0657	34995	2749			14808								
		STD	0250	0637	3500	2752	0006098	0219	14807								
		STD	0300	0611	3500	2756	0005818	0249	14805								
		STD	0400	0554	3500	2763	0005200	0304	14798								
132		OBS	T0407	0550	35002	2764			14798								
		STD	0500	0489	3498	2769	0004726	0354	14788								
132		OBS	0506	0486	34973	2769			14787								
		STD	0600	0448	3497	2773	0004422	0399	14787								
132		OBS	T0606	0446	34964	2773			14787								
		STD	0700	0419	3494	2774	0004369	0443	14791								
		STD	0800	0397	3493	2776	0004282	0487	14799								
132		OBS	0814	0394	34928	2776			14800								
		STD	0900	0385	3493	2777	0004255	0529	14810								
		STD	1000	0375	3493	2777	0004240	0572	14823								
132		OBS	T1025	0373	34925	2778			14826								
		STD	1100	0367	3493	2779	0004194	0614	14836								
		STD	1200	0359	3493	2779	0004181	0656	14850								
		STD	1300	0353	3493	2780	0004189	0698	14864								
		STD	1400	0347	3494	2781	0004122	0739	14878								
		STD	1500	0343	3494	2782	0004150	0781	14893								
132		OBS	T1554	0341	34945	2782			14902								

REFERENCE: CSTY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	QUAD	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR.1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT		NODC STATION NUMBER
311159	BX	5249 N	03533 W		184	25	09	09	131	1967	C15	014	3566	12	21	1				45	7	8		0014

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		18	S07	041	139	133	2	14	

MESSENGR TIME OF OBS HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	QUAL CODE
		STD	0000	1112	3485	2665	0013961	0000	14942								
131		OBS	0000	1112	34846	2665			14942								
131		OBS	0008	1097	34856	2669			14938								
		STD	0010	1094	3486	2669	0013593	0014	14937								
		STD	0020	1082	3486	2672	0013396	0027	14935								
131		OBS	0024	1077	34860	2673			14934								
		STD	0030	1073	3486	2674	0013244	0041	14933								
131		OBS	0037	1064	34864	2675			14931								
		STD	0050	1052	3487	2678	0012875	0067	14929								
131		OBS	0058	1016	34883	2685			14918								
		STD	0075	0863	3496	2716	0009283	0094	14865								
131		OBS	0076	0856	34959	2718			14862								
		STD	0100	0771	3497	2731	0007873	0116	14834								
131		OBS	0114	0736	34972	2737			14823								
		STD	0125	0722	3498	2739	0007158	0135	14819								
		STD	0150	0695	3499	2744	0006758	0152	14813								
131		OBS	T0152	0693	34991	2744			14813								
		STD	0200	0677	3501	2748	0006462	0185	14814								
		STD	0250	0654	3503	2752	0006106	0217	14814								
131		OBS	0293	0629	35040	2757			14811								
		STD	0300	0624	3504	2757	0005675	0246	14810								
131		OBS	0367	0575	35003	2761			14801								
		STD	0400	0546	3499	2763	0005189	0300	14795								
131		OBS	T0432	0521	34974	2765			14790								
		STD	0500	0490	3497	2768	0004775	0350	14788								
131		OBS	0584	0457	34968	2772			14788								
		STD	0600	0451	3496	2772	0004495	0396	14788								
		STD	0700	0418	3494	2774	0004357	0441	14791								
131		OBS	T0741	0407	34938	2775			14793								
		STD	0800	0401	3494	2776	0004275	0484	14800								
		STD	0900	0390	3494	2777	0004259	0527	14813								
		STD	1000	0380	3493	2778	0004231	0569	14825								
		STD	1100	0369	3493	2779	0004207	0611	14837								
131		OBS	T1198	0359	34930	2779			14849								

TABLE V.—Continued

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR,1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPLS	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT		NODC STATION NUMBER
31	1159	BX	5244	N 03533	W	184	25	09	10	132	1967	C15	015	3840	15	24	1				6	7		0015

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		25	S10	193	128	122	7	14	

MESSENGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA–T	SPECIFIC VOLUME ANOMALY–10⁸	Σ Δ D DYN. M. Σ 10³	SOUND VELOCITY	O₂ ml/l	PO₄–P µg-at/l	TOTAL–P µg-at/l	NO₂–N µg-at/l	NO₃–N µg-at/l	SiO₄–Si µg-at/l	pH	QC
		STD	0000	1096	3477	2662	0014231	0000	14935								
132		OBS	0000	1096	34772	2662			14935								
		STD	0010	1096	3477	2662	0014254	0014	14937								
132		OBS	0010	1096	34772	2662			14937								
		STD	0020	1092	3479	2665	0014067	0028	14937								
		STD	0030	1087	3480	2666	0013938	0042	14938								
132		OBS	0032	1086	34806	2667			14938								
		STD	0050	1030	3482	2678	0012876	0069	14921								
132		OBS	0052	1019	34826	2680			14917								
		STD	0075	0814	3495	2723	0008594	0096	14846								
132		OBS	0078	0796	34956	2727			14840								
		STD	0100	0726	3497	2738	0007246	0116	14817								
132		OBS	0104	0717	34977	2740			14814								
		STD	0125	0706	3499	2742	0006866	0133	14813								
		STD	0150	0695	3500	2745	0006683	0150	14813								
132		OBS	0157	0692	35007	2746			14813								
		STD	0200	0678	3502	2749	0006386	0183	14815								
132		OBS	T0210	0674	35023	2749			14815								
		STD	0250	0658	3502	2751	0006197	0215	14815								
		STD	0300	0635	3502	2754	0005990	0245	14814								
		STD	0400	0580	3501	2761	0005470	0302	14809								
132		OBS	T0421	0567	35008	2762			14807								
		STD	0500	0511	3498	2767	0004956	0354	14797								
132		OBS	0515	0502	34977	2768			14796								
		STD	0600	0457	3496	2771	0004566	0402	14791								
132		OBS	T0610	0452	34958	2772			14790								
		STD	0700	0423	3495	2774	0004371	0447	14793								
		STD	0800	0399	3493	2776	0004283	0490	14800								
132		OBS	0813	0396	34931	2776			14800								
		STD	0900	0384	3493	2777	0004236	0533	14810								
		STD	1000	0373	3493	2778	0004216	0575	14822								
132		OBS	T1020	0371	34924	2778			14824								
		STD	1100	0364	3493	2779	0004173	0617	14835								
		STD	1200	0356	3493	2780	0004122	0658	14848								
		STD	1300	0351	3494	2781	0004113	0699	14863								
		STD	1400	0348	3494	2781	0004119	0741	14879								
		STD	1500	0347	3495	2782	0004149	0782	14895								
132		OBS	T1520	0347	34948	2782			14899								

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR,1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPLS	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT		NODC STATION NUMBER
31	1159	BX	5248	N 03515	W	184	25	09	11	131	1967	C15	016	3292	15	23	1			44	7	8		0016

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		23	S15	227	139	133	5	14	

MESSENGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA–T	SPECIFIC VOLUME ANOMALY–10⁸	Σ Δ D DYN. M. Σ 10³	SOUND VELOCITY	O₂ ml/l	PO₄–P µg-at/l	TOTAL–P µg-at/l	NO₂–N µg-at/l	NO₃–N µg-at/l	SiO₄–Si µg-at/l	pH	QC
		STD	0000	1101	3480	2664	0014103	0000	14938								
131		OBS	0000	1101	34801	2664			14938								
		STD	0010	1101	3480	2664	0014126	0014	14939								
131		OBS	0011	1101	34801	2664			14939								
		STD	0020	1095	3483	2667	0013833	0028	14939								
		STD	0030	1077	3485	2672	0013400	0042	14935								
131		OBS	0035	1063	34859	2675			14931								
		STD	0050	1003	3488	2687	0011987	0067	14912								
131		OBS	0054	0982	34888	2691			14905								
		STD	0075	0812	3494	2723	0008639	0093	14845								
131		OBS	0082	0772	34953	2730			14831								
		STD	0100	0718	3497	2739	0007136	0113	14814								
131		OBS	0109	0698	34971	2742			14807								
		STD	0125	0687	3497	2743	0006751	0130	14806								
		STD	0150	0673	3497	2745	0006605	0147	14804								
131		OBS	0163	0667	34971	2746			14804								
		STD	0200	0661	3499	2749	0006382	0179	14808								
131		OBS	T0219	0656	34994	2750			14809								
		STD	0250	0638	3500	2752	0006118	0210	14807								
		STD	0300	0610	3500	2756	0005820	0240	14804								
		STD	0400	0554	3500	2763	0005230	0295	14798								
131		OBS	T0421	0543	34998	2764			14797								
		STD	0500	0500	3497	2767	0004896	0346	14792								
131		OBS	0522	0489	34966	2768			14791								
		STD	0600	0454	3495	2771	0004604	0394	14790								
131		OBS	T0618	0447	34946	2771			14790								
		STD	0700	0422	3494	2774	0004404	0439	14793								
		STD	0800	0399	3493	2775	0004305	0482	14800								
131		OBS	0814	0396	34926	2775			14801								
		STD	0900	0385	3492	2776	0004307	0525	14810								
		STD	1000	0373	3491	2776	0004327	0568	14822								
131		OBS	T1018	0371	34909	2777			14824								
		STD	1100	0363	3491	2777	0004301	0612	14834								
		STD	1200	0354	3491	2778	0004275	0654	14847								
		STD	1300	0348	3491	2779	0004275	0697	14861								
		STD	1400	0342	3491	2779	0004280	0740	14876								
		STD	1500	0339	3491	2780	0004319	0783	14891								
131		OBS	T1526	0338	34910	2780			14895								

TABLE V.—Continued

REFERENCE: CTRY CODE	REFERENCE: ID NO	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDICTR	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS: DIR	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT	NODC STATION NUMBER
31	1159	BX	5245 N	03520 W		18	4	25	09	12	1967	C15	017	3430	09	22	3			63	5	8	0017

WATER: COLOR CODE	WATER: TRANS (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP °C: DRY BULB	AIR TEMP °C: WET BULB	VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		23	S10	125	122	122	5	13	

MESSENGR TIME OF CAST HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10⁸	Σ Δ D DYN M Σ 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SCC
		STD	0000	1090	3477	2664	0014128	0000	14933								
135		OBS	0000	1090	34772	2664			14933								
135		OBS	0009	1091	34773	2663			14935								
		STD	0010	1090	3478	2664	0014092	0014	14935								
		STD	0020	1077	3483	2670	0013525	0028	14933								
135		OBS	0028	1065	34861	2675			14930								
		STD	0030	1065	3486	2675	0013093	0041	14931								
135		OBS	0045	1033	34886	2683			14922								
		STD	0050	0995	3490	2690	0011709	0066	14909								
135		OBS	0068	0873	34943	2714			14867								
		STD	0075	0831	3495	2721	0008843	0092	14853								
135		OBS	0091	0753	34965	2734			14826								
		STD	0100	0733	3497	2737	0007372	0112	14819								
		STD	0125	0690	3497	2743	0006799	0130	14807								
135		OBS	0136	0676	34971	2745			14803								
		STD	0150	0670	3498	2747	0006498	0146	14803								
135		OBS	T0183	0656	35002	2750			14803								
		STD	0200	0650	3500	2751	0006133	0178	14804								
		STD	0250	0629	3501	2754	0005904	0208	14804								
		STD	0300	0606	3501	2758	0005642	0237	14803								
135		OBS	0357	0577	35018	2762			14801								
		STD	0400	0551	3501	2764	0005103	0291	14797								
135		OBS	0445	0525	35004	2767			14794								
		STD	0500	0493	3499	2770	0004662	0339	14790								
135		OBS	T0535	0476	34975	2770			14788								
		STD	0600	0453	3496	2772	0004518	0385	14789								
		STD	0700	0423	3495	2774	0004342	0430	14793								
135		OBS	0720	0418	34946	2775			14794								
		STD	0800	0400	3494	2776	0004243	0473	14800								
		STD	0900	0384	3493	2777	0004214	0515	14810								
135		OBS	T0904	0384	34931	2777			14811								

REFERENCE: CTRY CODE	REFERENCE: ID NO	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDICTR	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS: DIR	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT	NODC STATION NUMBER
31	1159	BX	52425N	03526 W		18	4	25	09	13	1967	C15	018	3749	16	30	2				6	6	0018

WATER: COLOR CODE	WATER: TRANS (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP °C: DRY BULB	AIR TEMP °C: WET BULB	VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		30	S06	139	133	128	7	14	

MESSENGR TIME OF CAST HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10⁸	Σ Δ D DYN M Σ 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SCC
		STD	0000	1093	3476	2662	0014268	0000	14934								
130		OBS	0000	1093	34760	2662			14934								
		STD	0010	1095	3476	2662	0014318	0014	14937								
130		OBS	0010	1095	34761	2662			14937								
		STD	0020	1093	3476	2662	0014280	0029	14937								
		STD	0030	1091	3477	2663	0014251	0043	14938								
130		OBS	0032	1090	34767	2663			14939								
		STD	0050	0982	3485	2688	0011897	0069	14904								
130		OBS	0050	0982	34846	2688			14904								
		STD	0075	0795	3494	2725	0008394	0094	14839								
130		OBS	0077	0786	34941	2727			14836								
		STD	0100	0740	3498	2736	0007394	0114	14822								
130		OBS	0102	0737	34979	2737			14821								
		STD	0125	0713	3499	2741	0006961	0132	14816								
		STD	0150	0693	3500	2745	0006656	0149	14812								
130		OBS	0155	0690	35003	2746			14812								
		STD	0200	0679	3503	2749	0006362	0182	14815								
130		OBS	T0208	0676	35029	2750			14816								
		STD	0250	0656	3503	2752	0006126	0213	14815								
		STD	0300	0630	3502	2755	0005895	0243	14812								
		STD	0400	0570	3501	2762	0005320	0299	14805								
130		OBS	T0409	0564	35012	2763			14804								
		STD	0500	0498	3498	2768	0004827	0350	14791								
130		OBS	0510	0492	34972	2768			14791								
		STD	0600	0458	3497	2772	0004503	0396	14791								
130		OBS	T0609	0455	34966	2772			14792								
		STD	0700	0431	3496	2774	0004369	0441	14797								
		STD	0800	0409	3495	2776	0004267	0484	14804								
130		OBS	0814	0406	34950	2776			14805								
		STD	0900	0391	3494	2777	0004230	0526	14813								
		STD	1000	0377	3494	2778	0004153	0568	14824								
130		OBS	T1020	0374	34937	2778			14826								
		STD	1100	0370	3494	2779	0004151	0610	14837								
		STD	1200	0364	3494	2780	0004146	0651	14852								
		STD	1300	0359	3495	2781	0004132	0693	14866								
		STD	1400	0353	3495	2782	0004123	0734	14881								
		STD	1500	0347	3495	2782	0004103	0775	14895								
130		OBS	T1562	0344	34956	2783			14904								

TABLE V.—Continued

REFERENCE: CSIY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDICATOR	MARSDEN SQUARE: °	MARSDEN SQUARE: '	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT		NODC STATION NUMBER
31	1159	Bx	5238 N	03518 W		184	25	09	14	131	1967	C15	019	3200	14	26	2				8	5		0019

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP °C: DRY BULB	AIR TEMP °C: WET BULB	VIS CODE	NO. OBS DEPTHS	SPECIAL OBSERVATIONS
		27	S12	159	128	122	7	14	

MESSENGR TIME & HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	t °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^8	Σ Δ D DYN M Σ 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	SCC
		STD	0000	1096	3482	2666	0013855	0000	14936								
	131	OBS	0000	1096	34823	2666			14936								
	131	OBS	0009	1099	34830	2666			14939								
		STD	0010	1099	3483	2666	0013876	0014	14939								
		STD	0020	1097	3483	2666	0013896	0028	14940								
		STD	0030	1096	3483	2667	0013910	0042	14941								
	131	OBS	0030	1096	34825	2667			14941								
	131	OBS	0043	1056	34861	2677			14929								
		STD	0050	0996	3489	2689	0011799	0067	14909								
	131	OBS	0064	0892	34928	2709			14874								
		STD	0075	0827	3494	2721	0008859	0093	14851								
	131	OBS	0086	0775	34947	2729			14833								
		STD	0100	0744	3495	2734	0007643	0114	14823								
		STD	0125	0700	3496	2741	0007008	0132	14811								
	131	OBS	0126	0699	34962	2741			14810								
		STD	0150	0677	3497	2745	0006665	0149	14806								
	131	OBS	T0164	0665	34974	2747			14803								
		STD	0200	0664	3498	2748	0006467	0182	14809								
		STD	0250	0651	3500	2750	0006267	0214	14812								
		STD	0300	0626	3501	2755	0005909	0244	14811								
	131	OBS	T0332	0603	35021	2759			14807								
		STD	0400	0533	3497	2763	0005177	0300	14789								
	131	OBS	0416	0519	34960	2764			14786								
	131	OBS	T0498	0460	34937	2769			14775								
		STD	0500	0459	3494	2769	0004652	0349	14775								
		STD	0600	0432	3493	2771	0004524	0395	14780								
	131	OBS	0675	0414	34918	2773			14785								
		STD	0700	0409	3492	2773	0004408	0439	14787								
		STD	0800	0391	3493	2776	0004249	0483	14796								
	131	OBS	T0860	0382	34928	2777			14802								
		STD	0900	0376	3493	2778	0004142	0525	14807								
		STD	1000	0364	3493	2779	0004088	0566	14818								
		STD	1100	0355	3493	2780	0004065	0607	14831								
		STD	1200	0348	3493	2780	0004063	0647	14845								
		STD	1300	0345	3493	2781	0004106	0688	14860								
		STD	1400	0344	3493	2781	0004172	0729	14877								
	131	OBS	T1400	0344	34928	2781			14877								

NODC REF @ SEL: COUNTRY CODE	NODC REF @ SEL: CRUISE NUMBER	SHIP CODE	LAT TUDE	LONGITUDE	DRIFT INDICATOR	MARSDEN SQUARE: °	MARSDEN SQUARE: '	STATION TIME (GMT): MONTH	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NUMBER	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX SAMPLE DEP	WAVE OBSERVATIONS: DIR	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA AMT	WEATHER CODE	CLOUD: TYPE	CLOUD: AMT		NODC STATION NUMBER
31	1159	8X	5247 N	03516 W		184	25	09	15	130	1967	C15	020	3383	1	27	3				6	8		0020

* NOTE ENTER MNDC TEMPLATE FOR PLACING ELECTRONICALLY OBSERVED SERIAL DATA DTI VSE HEADINGS LABELED BY ASTERISKS WHERE THEY APPEAR

*DT: RATES COLOR	*S ‰: TRANS. (m)	WIND: DIR	WIND: SPEED OR FORCE	BAROMETER (mb)	AIR TEMPERATURE °C: DRY BULB	AIR TEMPERATURE °C: WET BULB	VIS CODE	NUMBER OBS LEVELS	SPECIAL OBSERVATIONS
		32	S18	088	100	089		14	

CAST and DURATION: MESSENGER TIME	CAST NO.	CARD TYPE	DEPTH (m)	t °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY - 10^8	ΔD DYN M Σ 10^3	COMPUTED SOUND VELOCITY m/sec	O_2 ml/l	*AMBIENT LIGHT: PO_4-P µgm-at/l	*AMBIENT LIGHT: TOTAL P µgm-at/l	*AMBIENT LIGHT: NO_2-N µgm-at/l	*AMBIENT LIGHT: NO_3-N µgm-at/l	*MEASURED SOUND VELOCITY: SiO_4-Si µgm-at/l	*MEASURED SOUND VELOCITY: pH
		STD	0000	1085	3487	2672	0013351	0000	14933							
	130	OBS	0000	1085	34866	2672			14933							
		STD	0010	1084	3487	2672	0013356	0013	14934							
	130	OBS	0011	1084	34867	2672			14934							
		STD	0020	1083	3487	2672	0013343	0026	14935							
		STD	0030	1082	3488	2673	0013312	0040	14937							
	130	OBS	0034	1082	34879	2673			14937							
		STD	0050	1011	3490	2687	0011987	0065	14915							
	130	OBS	0054	0994	34907	2691			14909							
		STD	0075	0903	3497	2711	0009776	0092	14890							
	130	OBS	0082	0874	34986	2717			14871							
		STD	0100	0797	3500	2730	0008018	0114	14844							
	130	OBS	0108	0769	35006	2734			14835							
		STD	0125	0741	3502	2740	0007120	0133	14827							
		STD	0150	0708	3504	2746	0006575	0150	14919							
	130	OBS	0163	0694	35046	2748			14816							
		STD	0200	0673	3506	2752	0006065	0182	14814							
	130	OBS	T0218	0663	35058	2754			14813							
		STD	0250	0644	3506	2756	0005750	0212	14810							
		STD	0300	0614	3505	2759	0005682	0240	14807							
		STD	0400	0556	3503	2765	0005025	0292	14799							
	130	OBS	T0435	0535	35018	2767			14796							
		STD	0500	0494	3499	2770	0004680	0341	14790							
	130	OBS	0543	0472	34975	2771			14788							
		STD	0600	0452	3497	2773	0004451	0386	14789							
	130	OBS	0651	0436	34960	2774			14791							
		STD	0700	0425	3495	2774	0004334	0430	14794							
		STD	0800	0405	3494	2776	0004271	0473	14802							
	130	OBS	0869	0393	34939	2777			14809							
		STD	0900	0389	3494	2777	0004223	0516	14812							
		STD	1000	0375	3493	2778	0004182	0558	14823							
	130	OBS	T1086	0363	34928	2779			14832							
		STD	1100	0361	3493	2779	0004126	0599	14834							
		STD	1200	0348	3494	2782	0003941	0640	14845							
		STD	1300	0335	3497	2785	0003662	0678	14857							
	130	OBS	T1313	0333	34976	2786			14858							

TABLE V.—Continued

OBSERV. CODE	CRUISE NUMBER	SHIP CODE	LATITUDE	LONGITUDE	QUARTER SQUARE	DAY	TIME (GMT)	YEAR	CRUISE NUMBER	STATION NUMBER	DEPTH TO BOTTOM	GAS SAMPLE	WAVE OBSERVATIONS	WEATHER CODE	CLOUD TYPE	CLOUD AMT	NODC STATION NUMBER
31	1159	BX	5233 N	03519 W	186	25	0916	1967	C15	021	2834	1	32 2		6	6	0021

WATER COLOR	WIND DIR.	WIND SPEED OR FORCE	BAROMETER mb	AIR TEMP DRY BULB °C	AIR TEMP WET BULB °C	VIS. CODE	NUMBER OBS. LEVELS	SPECIAL OBSERVATIONS
	23	S11	132	117	106	7	14	

CAST AND DURATION — REMARKS	CAST NO.	CARD TYPE	DEPTH m	T °C	S ‰	SIGMA-t	SPECIFIC VOLUME ANOMALY	BAD DYN. M.	COMPUTED SOUND VELOCITY m/sec	O_2 ml/l	AMBIENT LIGHT					CORRECTED SOUND VELOCITY m/sec
											PO_4 P µgm-at/l	TOTAL P µgm-at/l	NO_3 N µgm-at/l	NO_2 N µgm-at/l	SiO_3 Si µgm-at/l	µgm-at/l
		STD	0000	1080	3482	2669	0013604	0000	14930							
132		OBS	0000	1080	34820	2669			14930							
		STD	0010	1079	3487	2669	0013618	0013	14932							
132		OBS	0012	1079	34819	2669			14932							
		STD	0020	1080	3482	2669	0013659	0027	14934							
		STD	0030	1081	3482	2669	0013692	0040	14936							
132		OBS	0030	1081	34820	2669			14936							
132		OBS	0045	1060	34844	2674			14931							
		STD	0050	0996	3487	2688	0011940	0055	14909							
132		OBS	0067	0931	34938	2720			14851							
		STD	0075	0791	3495	2727	0008242	0091	14838							
132		OBS	0086	0747	34972	2735			14823							
		STD	0100	0727	3498	2738	0007200	0111	14817							
		STD	0125	0698	3499	2744	0006756	0128	14810							
132		OBS	0131	0693	34996	2745			14809							
		STD	0150	0684	3502	2747	0006432	0145	14809							
132		OBS	T0173	0672	35032	2750			14808							
		STD	0200	0644	3500	2752	0006038	0176	14802							
		STD	0250	0601	3496	2754	0005905	0206	14792							
		STD	0300	0560	3493	2757	0005669	0235	14783							
132		OBS	T0347	0526	34921	2760			14777							
		STD	0400	0492	3493	2765	0004956	0289	14772							
132		OBS	0433	0473	34935	2768			14770							
		STD	0500	0436	3491	2770	0004558	0336	14765							
132		OBS	T0514	0430	34911	2770			14765							
		STD	0600	0413	3492	2773	0004359	0380	14772							
132		OBS	0690	0397	34921	2775			14790							
		STD	0700	0396	3492	2775	0004249	0423	14791							
		STD	0800	0382	3491	2776	0004226	0466	14792							
132		OBS	T0875	0373	34911	2776			14801							
		STD	0900	0372	3491	2777	0004213	0508	14804							
		STD	1000	0367	3492	2777	0004216	0550	14819							
		STD	1100	0362	3492	2778	0004217	0592	14834							
		STD	1200	0357	3492	2779	0004215	0634	14849							
		STD	1300	0352	3493	2780	0004210	0676	14863							
		STD	1400	0347	3493	2780	0004203	0718	14878							
132		OBS	T1420	0346	34929	2781			14891							

TABLE VI.—Observed and interpolated oceanographic data from stations taken by USCGC OWASCO, at Ocean Station CHARLIE, 15 October—2 November 1967, prepared from NODC Listing No. 31-1172.

NODC WMO ID NO.	SHIP CODE	LATITUDE	LONGITUDE	MARSDEN SQUARE	STATION TIME (GMT)	YEAR	ORIGINATOR'S CRUISE NUMBER	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. SAMPLE DEPTH	WAVE OBSERVATIONS	WEATHER CODE	CLOUD CODES	NODC STATION NUMBER
31117 7	OW	52351N	035295W	184	25 10 15 1330	1967	C16	001	3383	1	85 4		6 4	0001

WATER COLOR CODE	TRANSP. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NUMBER OBS. LEVELS	SPECIAL OBSERVATIONS
		35	S18	140	078	056	7	14	

CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPEC. VOL. ANOMALY ×10⁵	DYN. DEPTH ×10²	COMPUTED SOUND VELOCITY m/sec	O₂ ml/l	AMBIENT LIGHT PO₄-P µg-at/l	AMBIENT LIGHT TOTAL-P µg-at/l	AMBIENT LIGHT NO₂-N µg-at/l	AMBIENT LIGHT NO₃-N µg-at/l	MEASURED SOUND VELOCITY Si O₄-Si µg-at/l	MEASURED SOUND VELOCITY pH
	STD	0000	0950	34484	2693	0011361	0000	14896							
130	OBS	0000	0950	34836	2693			14884							
130	OBS	0009	0949	34835	2693			14885							
	STD	0010	0949	3483	2693	0011373	0011	14885							
	STD	0020	0949	3483	2692	0011430	0022	14886							
130	OBS	0027	0949	34827	2692			14887							
	STD	0030	0949	3483	2692	0011469	0034	14888							
130	OBS	0043	0948	34821	2692			14890							
	STD	0050	0947	3481	2692	0011573	0057	14890							
130	OBS	0063	0909	34803	2697			14878							
	STD	0075	0905	3486	2718	0009102	0083	14842							
130	OBS	0085	0739	34905	2731			14818							
	STD	0100	0709	3494	2738	0007241	0103	14810							
	STD	0125	0671	3498	2746	0006496	0120	14799							
130	OBS	0127	0669	34990	2747			14799							
	STD	0150	0655	3498	2749	0006335	0136	14797							
130	OBS	T0170	0643	34980	2750			14796							
	STD	0200	0626	3497	2751	0006107	0167	14794							
	STD	0250	0598	3495	2754	0005957	0197	14790							
	STD	0300	0570	3494	2756	0005756	0227	14787							
130	OBS	0364	0533	34930	2760			14783							
	STD	0400	0511	3493	2763	0005190	0281	14780							
130	OBS	0450	0483	34937	2767			14776							
	STD	0500	0457	3494	2770	0004636	0330	14774							
130	OBS	T0537	0441	34934	2771			14773							
	STD	0600	0427	3492	2772	0004504	0376	14778							
	STD	0700	0408	3491	2773	0004456	0421	14786							
130	OBS	0717	0405	34910	2773			14788							
	STD	0800	0395	3492	2775	0004322	0465	14798							
130	OBS	T0896	0384	34933	2777			14809							
	STD	0900	0394	3493	2777	0004194	0507	14810							
	STD	1000	0374	3494	2779	0004136	0549	14822							
	STD	1100	0365	3494	2780	0004084	0590	14836							
	STD	1200	0358	3495	2781	0004041	0631	14849							
	STD	1300	0352	3495	2782	0004026	0671	14864							
130	OBS	T1366	0349	34954	2782			14874							

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE	LONGITUDE	MARSDEN SQUARE	STATION TIME (GMT)	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS	WEATHER CODE	CLOUD CODES	NODC STATION NUMBER
	311172	OW	52426N	035341W	184	25 10 16 126	1967	C16	002	3658	10	02 1	53	6 4	0002

WATER COLOR CODE	TRANSP. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS DEPTHS	SPECIAL OBSERVATIONS
		35	S09	200	072	067	7	13	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY ×10⁵	Σ Δ D DYN. M ×10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	Si O₄-Si µg-at/l	pH	LCC
		STD	0000	0942	3481	2692	0011398	0000	14880								
	126	OBS	0000	0942	34813	2692			14880								
	126	OBS	0009	0934	34822	2694			14879								
		STD	0010	0934	3482	2694	0011227	0011	14879								
		STD	0020	0935	3482	2694	0011241	0023	14881								
		STD	0030	0935	3483	2695	0011245	0034	14883								
	126	OBS	0032	0935	34827	2695			14883								
	126	OBS	0047	0935	34837	2695			14886								
		STD	0050	0924	3484	2697	0011042	0056	14882								
	126	OBS	0073	0815	34840	2715			14845								
		STD	0075	0798	3484	2717	0009172	0081	14839								
	126	OBS	0096	0667	34851	2737			14791								
		STD	0100	0668	3487	2738	0007207	0102	14792								
		STD	0125	0671	3494	2743	0006771	0119	14799								
	126	OBS	0145	0674	34984	2746			14804								
		STD	0150	0673	3499	2747	0006463	0136	14804								
		STD	0200	0657	3500	2750	0006285	0168	14806								
	126	OBS	T0200	0657	34996	2750			14806								
		STD	0250	0618	3498	2753	0005970	0198	14799								
		STD	0300	0582	3497	2757	0005656	0227	14793								
	126	OBS	T0389	0526	34944	2762			14784								
		STD	0400	0520	3494	2763	0005219	0282	14784								
	126	OBS	0485	0477													
		STD	0500	0471	3494	2768	0004793	0332	14780								
	126	OBS	T0582	0442													
		STD	0600	0439	3493	2771	0004576	0379	14783								
		STD	0700	0421	3492	2772	0004511	0424	14792								
	126	OBS	0777	0407													
		STD	0800	0403	3492	2774	0004449	0469	14801								
		STD	0900	0386	3491	2775	0004393	0513	14810								
	126	OBS	T0964	0375	34906	2776			14816								

TABLE VI.—Continued

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DUPE MODE	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT		NODC STATION NUMBER
31	1172	OW	52443N	035302W		18	4	25	10	17	1967	C16	003	3566	15	24	2				6	4		0003

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP °C: DRY BULB	AIR TEMP °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		24	S10	250	089	072	7	14	

MESSENGE TIME OF ENTRY HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-E10⁷	ΔD DYN. M. E 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₃-N µg-at/l	NO₂-N µg-at/l	SiO₄-Si µg-at/l	pH	QCC
		STD	0000	0933	3481	2694	0011250	0000	14877								
128		OBS	0000	0933	34814	2694			14877								
		STD	0010	0930	3481	2694	0011231	0011	14877								
128		OBS	0010	0930	34813	2694			14877								
		STD	0020	0930	3483	2696	0011120	0022	14879								
		STD	0030	0929	3484	2697	0011058	0034	14881								
128		OBS	0032	0929	34842	2697			14881								
		STD	0050	0919	3486	2700	0010772	0055	14881								
128		OBS	0050	0919	34863	2700			14881								
		STD	0075	0853	3498	2719	0008977	0080	14861								
128		OBS	0076	0848	34980	2720			14860								
		STD	0100	0693	3485	2733	0007729	0101	14802								
128		OBS	0100	0693	34845	2733			14802								
		STD	0125	0645	3486	2740	0007026	0119	14788								
		STD	0150	0612	3488	2746	0006501	0136	14779								
128		OBS	0150	0612	34879	2746			14779								
		STD	0200	0589	3490	2751	0006135	0168	14778								
128		OBS	T0201	0588	34898	2751			14778								
		STD	0250	0558	3491	2756	0005737	0198	14774								
		STD	0300	0531	3491	2759	0005473	0226	14771								
128		OBS	0391	0492	34922	2764			14770								
		STD	0400	0489	3492	2765	0004996	0278	14771								
128		OBS	0486	0464	34930	2768			14775								
		STD	0500	0460	3493	2769	0004715	0326	14775								
128		OBS	T0575	0440	34930	2771			14779								
		STD	0600	0433	3493	2772	0004506	0373	14781								
		STD	0700	0409	3492	2773	0004401	0417	14787								
128		OBS	0767	0397	34916	2774			14793								
		STD	0800	0393	3492	2775	0004332	0461	14797								
		STD	0900	0383	3492	2776	0004298	0504	14809								
128		OBS	T0959	0377	34919	2777			14817								
		STD	1000	0373	3492	2777	0004253	0547	14822								
		STD	1100	0364	3492	2778	0004232	0589	14835								
		STD	1200	0356	3493	2780	0004145	0631	14848								
		STD	1300	0349	3493	2780	0004140	0672	14862								
		STD	1400	0343	3493	2781	0004145	0714	14876								
128		OBS	T1481	0339	34936	2782			14888								

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DUPE MODE	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT		NODC STATION NUMBER
31	1172	OW	52539N	035209W		18	4	25	10	18	1967	C16	004	2926	16	19	3			20	5	8		0004

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP °C: DRY BULB	AIR TEMP °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		18	S18	010	094	089	6	14	

MESSENGE TIME OF ENTRY HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-E10⁷	ΔD DYN. M. E 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₃-N µg-at/l	NO₂-N µg-at/l	SiO₄-Si µg-at/l	pH	QCC
		STD	0000	0946	3478	2689	0011713	0000	14881								
127		OBS	0000	0946	34779	2689			14881								
		STD	0010	0941	3478	2690	0011649	0012	14881								
127		OBS	0011	0940	34779	2690			14881								
		STD	0020	0940	3478	2690	0011652	0023	14882								
		STD	0030	0940	3479	2691	0011599	0035	14884								
127		OBS	0034	0940	34792	2691			14885								
		STD	0050	0934	3482	2694	0011324	0058	14886								
127		OBS	0053	0926	34824	2696			14883								
		STD	0075	0782	3484	2720	0008950	0083	14833								
127		OBS	0080	0758	34842	2723			14824								
		STD	0100	0703	3486	2732	0007751	0104	14806								
127		OBS	0109	0683	34874	2736			14800								
		STD	0125	0661	3488	2740	0007085	0123	14794								
		STD	0150	0638	3490	2745	0006676	0140	14789								
127		OBS	0162	0633	34925	2747			14790								
		STD	0200	0650	3504	2754	0005866	0171	14804								
127		OBS	T0216	0653	35081	2757			14809								
		STD	0250	0620	3507	2760	0005341	0199	14801								
		STD	0300	0579	3505	2764	0005038	0225	14792								
		STD	0400	0516	3501	2768	0004679	0274	14783								
127		OBS	T0419	0507	35001	2769			14782								
		STD	0500	0485	3500	2771	0004492	0320	14786								
127		OBS	0524	0477	34998	2772			14787								
		STD	0600	0443	3494	2771	0004549	0365	14785								
127		OBS	T0629	0432	34926	2771			14785								
		STD	0700	0413	3491	2772	0004522	0410	14789								
		STD	0800	0392	3490	2774	0004446	0455	14796								
127		OBS	0839	0385	34896	2774			14800								
		STD	0900	0379	3490	2775	0004407	0499	14807								
		STD	1000	0371	3490	2776	0004392	0543	14821								
127		OBS	T1047	0367	34899	2776			14827								
		STD	1100	0363	3490	2777	0004367	0587	14834								
		STD	1200	0356	3491	2778	0004292	0630	14848								
		STD	1300	0350	3492	2780	0004226	0673	14862								
		STD	1400	0345	3493	2781	0004170	0715	14877								
		STD	1500	0341	3494	2782	0004125	0756	14893								
127		OBS	T1622	0337	34964	2784			14912								

Table VI.—Continued

Reference: Ctry Code	Reference: ID. No.	Ship Code	Latitude 1/10	Longitude 1/10	Chart Indicate	Marsden Square: 10°	Marsden Square: 1°	Station Time (GMT): Mo	Station Time (GMT): Day	Station Time (GMT): Hr. 1/10	Year	Originator's: Cruise No.	Originator's: Station Number	Depth to Bottom	Max. Depth of Smpl's	Wave Observations: Dir.	Wave Observations: Hgt.	Wave Observations: Per.	Wave Observations: Sea	Weather Code	Cloud Codes: Type	Cloud Codes: Amt		NODC Station Number
31	1172	OW	52430N	035320W		18	4	25	10	20	1967	C16	005	3841	35	31	3				6	8		0005

Water: Color Code	Water: Trans. m	Wind: Dir.	Wind: Speed or Force	Barometer (mbs)	Air Temp. °C: Dry Bulb	Air Temp. °C: Wet Bulb	Vis. Code	No. Obs. Depths	Special Observations
		00	500	220	083	072	7	18	

Passenger Time or Hr 1/10	Cast No	Card Type	Depth (m)	T °C	S ‰	Sigma-T	Specific Volume Anomaly-10⁸	ΔD Dyn. M Σ 10³	Sound Velocity	O₂ ml/l	PO₄-P µg-at/l	Total-P µg-at/l	NO₃-N µg-at/l	NO₂-N µg-at/l	SiO₄-Si µg-at/l	pH	Acc
		STD	0000	0968	3468	2678	0012764	0000	14888								
125		OBS	0000	0968	34684	2678			14888								
		STD	0010	0933	3471	2686	0012026	0012	14877								
125		OBS	0010	0933	34712	2686			14877								
		STD	0020	0933	3475	2689	0011757	0024	14879								
		STD	0030	0932	3477	2691	0011623	0036	14881								
125		OBS	0031	0932	34777	2691			14881								
		STD	0050	0927	3480	2694	0011363	0059	14883								
125		OBS	0052	0921	34804	2695			14881								
		STD	0075	0774	3486	2722	0008673	0084	14830								
125		OBS	0078	0760	34870	2725			14825								
		STD	0100	0694	3485	2733	0007683	0104	14803								
125		OBS	0103	0687	34851	2734			14800								
		STD	0125	0660	3486	2739	0007206	0123	14793								
		STD	0150	0627	3488	2744	0006721	0140	14785								
125		OBS	0155	0620	34877	2745			14783								
		STD	0200	0551	3486	2753	0005929	0172	14762								
125		OBS	T0208	0541	34862	2754			14759								
		STD	0250	0516	3488	2758	0005456	0201	14756								
		STD	0300	0489	3489	2762	0005126	0227	14754								
		STD	0400	0451	3491	2768	0004652	0276	14755								
125		OBS	T0408	0449	34912	2768			14755								
		STD	0500	0432	3492	2771	0004466	0321	14763								
125		OBS	0507	0431	34923	2771			14764								
		STD	0600	0422	3493	2773	0004393	0366	14776								
125		OBS	T0612	0421	34929	2773			14777								
		STD	0700	0411	3493	2774	0004380	0410	14788								
		STD	0800	0399	3492	2775	0004365	0453	14799								
125		OBS	0812	0397													
		STD	0900	0383	3492	2776	0004298	0497	14809								
		STD	1000	0370	3491	2777	0004262	0539	14820								
125		OBS	T1020	0368	34913	2777			14823								
		STD	1100	0367	3492	2778	0004268	0582	14836								
		STD	1200	0365	3493	2779	0004254	0625	14852								
		STD	1300	0362	3493	2779	0004301	0668	14868								
		STD	1400	0357	3494	2780	0004247	0710	14882								
		STD	1500	0351	3494	2781	0004251	0753	14897								
125		OBS	T1523	0350	34943	2781			14900								
		STD	1750	0329	3495	2784	0004086	0857	14930								
184		OBS	T1874	0320	34956	2785			14947								
		STD	2000	0313	3496	2786	0004003	0958	14966								
184		OBS	T2355	0300	34960	2787			15021								
		STD	2500	0298	3497	2788	0004033	1159	15045								
184		OBS	2825	0295	34977	2789			15100								
		STD	3000	0294	3498	2789	0004236	1366	15130								
184		OBS	T3457	0293	34976	2789			15209								

TABLE VI.—Continued

REFERENCE: CHART CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE '1/10	DRIFT INDICATOR	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT.	WAVE OBSERVATIONS: PER.	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT.	NODC STATION NUMBER
311172	OW	52430N	035320W		184	25	10	23	130	1967	C16	006		3658	16	27	3				5	5	0006

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		27	S05	050	078	061		14	

MESSENGER TIME OF OBS. HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\frac{1}{2}\Delta D$ DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	3000
		STD	0000	0926	3476	2691	0011563	0000	14874								
130		OBS	0000	0926	34757	2691			14874								
		STD	0010	0923	3476	2691	0011549	0012	14874								
130		OBS	0011	0923	34756	2691			14874								
		STD	0020	0922	3476	2691	0011542	0023	14875								
		STD	0030	0921	3476	2691	0011539	0035	14877								
130		OBS	0036	0920	34758	2692			14877								
		STD	0050	0917	3476	2692	0011503	0058	14878								
130		OBS	0055	0916	34761	2693			14879								
		STD	0075	0909	3482	2698	0010979	0086	14880								
130		OBS	0082	0906	34838	2700			14881								
		STD	0100	0767	3487	2724	0008559	0110	14831								
130		OBS	0109	0712	34882	2733			14812								
		STD	0125	0668	3487	2738	0007251	0130	14797								
		STD	0150	0612	3487	2746	0006568	0147	14779								
130		OBS	0162	0591	34866	2748			14772								
		STD	0200	0552	3488	2754	0005822	0178	14763								
130		OBS	T0213	0540	34881	2755			14760								
		STD	0250	0521	3489	2758	0005441	0206	14758								
		STD	0300	0498	3489	2761	0005231	0233	14757								
		STD	0400	0458	3490	2767	0004807	0283	14757								
130		OBS	T0438	0445	34907	2769			14758								
		STD	0500	0426	3491	2771	0004472	0330	14761								
130		OBS	0535	0417	34911	2772			14763								
		STD	0600	0406	3492	2773	0004300	0373	14769								
130		OBS	T0638	0400	34919	2774			14773								
		STD	0700	0394	3492	2775	0004243	0416	14781								
		STD	0800	0386	3492	2776	0004250	0459	14794								
130		OBS	0847	0382	34916	2776			14800								
		STD	0900	0377	3492	2777	0004235	0501	14807								
		STD	1000	0370	3492	2777	0004225	0543	14821								
130		OBS	T1066	0365	34920	2778			14829								
		STD	1100	0363	3492	2778	0004212	0586	14834								
		STD	1200	0357	3493	2779	0004193	0628	14849								
		STD	1300	0352	3493	2780	0004184	0670	14863								
		STD	1400	0347	3493	2781	0004173	0711	14878								
		STD	1500	0344	3494	2781	0004185	0753	14894								
130		OBS	T1640	0341	34942	2782			14916								

REFERENCE: CHART CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DRIFT INDICATOR	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT.	WAVE OBSERVATIONS: PER.	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT.	NODC STATION NUMBER
311172	OW	5248 N	03520 W		184	25	10	28	128	1967	C16	007		3017	06	24	5				6	8	0007

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		24	S15	230	097	094	7	12	

MESSENGER TIME OF OBS. HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\frac{1}{2}\Delta D$ DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	3000
		STD	0000	0889	3481	2701	0010588	0000	14861								
128		OBS	0000	0889	34812	2701			14861								
128		OBS	0009	0886	34809	2701			14861								
		STD	0010	0886	3481	2701	0010578	0011	14861								
		STD	0020	0886	3482	2702	0010523	0021	14863								
128		OBS	0024	0886	34821	2702			14863								
		STD	0030	0886	3483	2703	0010475	0032	14865								
128		OBS	0038	0887	34832	2703			14866								
		STD	0050	0885	3484	2703	0010441	0053	14868								
128		OBS	0056	0881	34839	2704			14867								
128		OBS	0074	0858	34840	2708			14861								
		STD	0075	0855	3484	2708	0010015	0078	14860								
		STD	0100	0772	3484	2721	0008853	0102	14833								
128		OBS	0112	0730	34833	2727			14818								
		STD	0125	0676	3483	2734	0007654	0122	14799								
128		OBS	T0144	0608	34821	2742			14775								
		STD	0150	0605	3483	2743	0006778	0140	14775								
		STD	0200	0575	3488	2751	0006102	0173	14772								
		STD	0250	0542	3491	2758	0005542	0202	14767								
128		OBS	T0299	0506	34918	2762			14761								
		STD	0300	0505	3492	2763	0005104	0228	14761								
128		OBS	0370	0448	34894	2767			14748								
		STD	0400	0446	3490	2768	0004670	0277	14752								
128		OBS	T0440	0442	34915	2770			14758								
		STD	0500	0434	3492	2771	0004496	0323	14764								
		STD	0600	0417	3493	2773	0004351	0367	14774								
128		OBS	0621	0412	34927	2774			14775								

TABLE VI.—Continued

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	CARD TYPE	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT.	WAVE OBSERVATIONS: PER.	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT		NODC STATION NUMBER
31	1172	OW	5246 N	03515 W		184	25	10	29	125	1967	C16	008	3292	15	28	2				6	7		0008

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		24	S09	230	100	094	7	14	

MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^8	¾ Δ D DYN. M. Σ 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_4-Si µg-at/l	pH	1000
		STD	0000	0899	3474	2693	0011289	0000	14863								
	125	OBS	0000	0899	34738	2693			14863								
		STD	0010	0895	3474	2694	0011248	0011	14863								
	125	OBS	0010	0895	34738	2694			14863								
		STD	0020	0895	3474	2694	0011260	0023	14865								
		STD	0030	0894	3474	2694	0011265	0034	14866								
	125	OBS	0030	0894	34739	2694			14866								
		STD	0050	0893	3474	2695	0011274	0056	14869								
	125	OBS	0050	0893	34741	2695			14869								
	125	OBS	0074	0871	34751	2699			14865								
		STD	0075	0865	3475	2700	0010810	0084	14863								
	125	OBS	0099	0737	34809	2724			14819								
		STD	0100	0733	3481	2724	0008531	0108	14817								
		STD	0125	0646	3482	2737	0007337	0128	14787								
	125	OBS	0148	0588	34825	2745			14768								
		STD	0150	0586	3483	2746	0006542	0145	14768								
	125	OBS	T0198	0536	34846	2753			14755								
		STD	0200	0535	3485	2754	0005842	0176	14755								
		STD	0250	0506	3487	2759	0005414	0204	14752								
		STD	0300	0483	3488	2762	0005131	0231	14751								
	125	OBS	0396	0452	34908	2768			14754								
		STD	0400	0452	3491	2768	0004663	0280	14755								
	125	OBS	0494	0439	34927	2771			14765								
		STD	0500	0438	3493	2771	0004460	0325	14766								
	125	OBS	T0594	0417	34933	2774			14773								
		STD	0600	0416	3493	2774	0004310	0369	14773								
		STD	0700	0398	3493	2775	0004200	0412	14782								
	125	OBS	0792	0384	34922	2776			14792								
		STD	0800	0383	3492	2776	0004179	0454	14793								
		STD	0900	0371	3492	2777	0004173	0495	14804								
	125	OBS	0992	0362	34910	2778			14816								
		STD	1000	0362	3491	2778	0004195	0537	14817								
		STD	1100	0359	3492	2778	0004201	0579	14833								
		STD	1200	0356	3492	2779	0004206	0621	14848								
		STD	1300	0353	3493	2780	0004216	0663	14864								
		STD	1400	0351	3493	2780	0004218	0706	14880								
	125	OBS	T1494	0348	34938	2781			14894								

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	CARD TYPE	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT.	WAVE OBSERVATIONS: PER.	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT		NODC STATION NUMBER
31	1172	OW	52415N	035290W		184	25	10	30	125	1967	C16	009	3518	14	27	2				6	6		0009

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		29	S07	21	094	089	7	14	

MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^8	¾ Δ D DYN. M. Σ 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_4-Si µg-at/l	pH	1000
		STD	0000	0896	3474	2694	0011214	0000	14862								
	125	OBS	0000	0896	34742	2694			14862								
		STD	0010	0894	3474	2694	0011225	0011	14863								
	125	OBS	0010	0894	34739	2694			14863								
		STD	0020	0885	3478	2699	0010805	0022	14862								
		STD	0030	0879	3481	2702	0010548	0033	14862								
	125	OBS	0030	0879	34805	2702			14862								
	125	OBS	0048	0879	34807	2702			14865								
		STD	0050	0879	3481	2702	0010547	0054	14865								
	125	OBS	0072	0877	34828	2704			14868								
		STD	0075	0868	3482	2705	0010359	0080	14865								
	125	OBS	0095	0802	34809	2714			14843								
		STD	0100	0775	3482	2719	0009044	0104	14834								
		STD	0125	0670	3487	2738	0007277	0125	14798								
	125	OBS	0145	0619	34904	2747			14781								
		STD	0150	0619	3491	2748	0006358	0142	14782								
	125	OBS	T0193	0618	34972	2753			14789								
		STD	0200	0612	3497	2753	0005895	0172	14788								
		STD	0250	0569	3496	2758	0005500	0201	14779								
		STD	0300	0533	3495	2762	0005200	0228	14772								
	125	OBS	T0384	0487	34944	2767			14767								
		STD	0400	0482	3495	2768	0004713	0277	14768								
	125	OBS	0476	0458	34957	2771			14771								
		STD	0500	0449	3495	2772	0004438	0323	14771								
	125	OBS	T0566	0428	34945	2773			14773								
		STD	0600	0420	3494	2774	0004281	0367	14775								
		STD	0700	0400	3493	2775	0004223	0409	14783								
	125	OBS	0765	0390	34921	2776			14790								
		STD	0800	0386	3492	2776	0004228	0451	14794								
		STD	0900	0376	3492	2777	0004201	0494	14806								
	125	OBS	0959	0371	34919	2777			14814								
		STD	1000	0368	3492	2778	0004194	0536	14820								
		STD	1100	0361	3492	2778	0004196	0577	14833								
		STD	1200	0356	3492	2779	0004218	0620	14848								
		STD	1300	0352	3493	2780	0004177	0662	14863								
		STD	1400	0350	3493	2780	0004232	0704	14879								
	125	OBS	T1445	0350	34935	2781			14887								

TABLE VI.—Continued

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DUPE RECTE	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT.	WAVE OBSERVATIONS: PER.	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT	NODC STATION NUMBER
31	1172	OW	5240 N	03526 W		18	4	25	10	31	128	1967	C16	010	3658	13	29	2				5	8	0010

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		33	S17	140	067	050	7	14	

MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-S_{19}^{T}	Σ Δ D DYN. M. Σ 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_4-Si µg-at/l	pH	QUAL
		STD	0000	0901	3475	2694	0011208	0000	14864								
128		OBS	0000	0901	34753	2694			14864								
		STD	0010	0897	3475	2695	0011152	0011	14864								
128		OBS	0011	0896	34754	2695			14864								
		STD	0020	0896	3475	2695	0011158	0022	14866								
		STD	0030	0895	3476	2695	0011163	0033	14867								
128		OBS	0032	0895	34755	2695			14867								
128		OBS	0047	0891	34769	2697			14868								
		STD	0050	0889	3478	2698	0010926	0056	14868								
128		OBS	0069	0877	34825	2704			14868								
		STD	0075	0864	3482	2705	0010298	0082	14864								
128		OBS	0090	0818	34813	2712			14848								
		STD	0100	0753	3482	2722	0008734	0106	14825								
		STD	0125	0631	3484	2741	0006996	0126	14782								
128		OBS	0130	0613	34846	2744			14775								
		STD	0150	0583	3485	2747	0006386	0142	14767								
128		OBS	T0172	0555	34847	2751			14759								
		STD	0200	0553	3488	2754	0005836	0173	14763								
		STD	0250	0550	3494	2759	0005417	0201	14771								
		STD	0300	0547	3497	2762	C00522J	0228	14778								
128		OBS	T0345	0544	34988	2763			14785								
		STD	0400	0516	3498	2766	0004880	0278	14782								
128		OBS	0419	0504	34980	2768			14781								
128		OBS	T0496	0442	34934	2771			14767								
		STD	0500	0441	3493	2771	0004465	0325	14767								
		STD	0600	0413	3493	2774	0004298	0369	14772								
128		OBS	0674	0399	34921	2775			14778								
		STD	0700	0397	3492	2775	0004248	0411	14782								
		STD	0800	0390	3493	2776	0004215	0454	14796								
128		OBS	0850	0386	34931	2777			14802								
		STD	0900	0382	3493	2777	0004190	0496	14809								
		STD	1000	0375	3493	2778	0004196	0538	14823								
		STD	1100	0367	3493	2779	0004186	0580	14836								
		STD	1200	0360	3493	2779	0004193	0621	14850								
128		OBS	T1292	0353	34930	2780			14862								

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DUPE RECTE	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT.	WAVE OBSERVATIONS: PER.	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT	NODC STATION NUMBER
31	1172	OW	5241 N	03533 W		18	4	25	11	02	125	1967	C16	011	3658	17	29	3				6	8	0011

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		27	S12	220	072	061	7	14	

MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-S_{19}^{T}	Σ Δ D DYN. M. Σ 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_4-Si µg-at/l	pH	QUAL
		STD	0000	0874	3477	2700	0010696	0000	14854								
125		OBS	0000	0874	34767	2700			14854								
		STD	0010	0873	3477	2700	0010687	0011	14856								
125		OBS	0011	0873	34769	2700			14856								
		STD	0020	0876	3477	2700	0010743	0021	14858								
		STD	0030	0879	3479	2701	0010659	0032	14861								
125		OBS	0034	0880	34794	2701			14863								
		STD	0050	0886	3485	2704	0010359	0053	14868								
125		OBS	0053	0887	34856	2705			14869								
		STD	0075	0800	3486	2718	0009067	0077	14840								
125		OBS	0080	0779	34860	2722			14833								
		STD	0100	0684	3485	2734	0007594	0098	14799								
125		OBS	0108	0655	34841	2738			14788								
		STD	0125	0626	3485	2742	0006858	0116	14780								
		STD	0150	0594	3486	2747	0006417	0133	14771								
125		OBS	0162	0584	34864	2749			14769								
		STD	0200	0578	3489	2751	0006065	0164	14773								
125		OBS	0215	0575	34897	2752			14775								
		STD	0250	0544	3490	2756	0005663	0193	14768								
		STD	0300	0506	3490	2761	0005265	0221	14761								
		STD	0400	0456	3490	2767	0004791	0271	14757								
125		OBS	T0431	0447	34899	2768			14758								
		STD	0500	0446	3493	2770	0004552	0318	14769								
125		OBS	0541	0441	34944	2772			14774								
		STD	0600	0423	3494	2774	0004316	0362	14776								
125		OBS	T0652	0409	34932	2774			14779								
		STD	0700	0402	3493	2775	0004246	0405	14784								
		STD	0800	0388	3492	2776	0004222	0447	14795								
125		OBS	0882	0378	34920	2777			14804								
		STD	0900	0376	3492	2777	0004201	0489	14806								
		STD	1000	0367	3492	2778	0004197	0531	14819								
		STD	1100	0358	3492	2778	0004197	0573	14832								
125		OBS	1117	0357	34915	2778			14835								
		STD	1200	0351	3492	2779	0004158	0615	14846								
		STD	1300	0345	3492	2780	0004165	0657	14860								
		STD	1400	0341	3493	2781	0004120	0698	14876								
		STD	1500	0337	3493	2782	0004148	0739	14891								
125		OBS	T1724	0334	34958	2784			14928								

TABLE VII.—Observed and interpolated oceanographic data from stations taken by USCGC SEBAGO, at Ocean Station CHARLIE, 28 November—30 November 1967, prepared from NODC Listing No. 31-1186.

IDENTIFY CODE	CRUISE NUMBER	SHIP CODE	LATITUDE	LONGITUDE	DRIFT INDICATOR	MARSDEN SQUARE	STATION TIME (G.m.t.) MONTH	DAY	HR. L/D	YEAR	ORIGINATOR'S CRUISE NUMBER	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	SEA SAMPLE	WAVE OBSERVATIONS DIR.	HGT.	PER.	SEA ANT.	WEATHER CODE	*WIND CLOUD TYPE	*WIND CLOUD AMT	NODC STATION NUMBER
31	1186	SS	52440N	035350W		184	25	11	28	1967	C17	001	3630		24	3	5		61	6	6	0001

*DT WATER COLOR	*SVD TRANS. (m.)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mb.)	AIR TEMPERATURE °C DRY BULB	AIR TEMPERATURE °C WET BULB	VIS. CODE	NUMBER OBS. LEVELS	SPECIAL OBSERVATIONS
		24	S16	127	094	083	6		

CAST and TIME DURATION or REMARKS TIME	CAST NO.	CARD TYPE	DEPTH (m.)	ETC	t°...	SIGMA-t	SPECIFIC VOLUME ANOMALY - 1	2nd DYN. ST. 1	COMPUTED SOUND VELOCITY m./sec	O_2 ml./l.	*AMBIENT LIGHT PO_2 -P	*AMBIENT LIGHT TOTAL-P	*AMBIENT LIGHT NO_3 -N	*AMBIENT LIGHT NO_2 -N	*MEASURED SOUND VELOCITY $b\,O_2$-b	*MEASURED SOUND VELOCITY alt
		STD	0000	0837	3476	2705	0010167	0000	14840							
149		OBS	0000	0837	34765	2705			14840							
149		OBS	0009	0831	34761	2706			14939							
		STD	0010	0831	3476	2706	0010132	0010	14940							
		STD	0020	0832	3476	2706	0010132	0020	14842							
149		OBS	0029	0832	34767	2706			14843							
		STD	0030	0832	3477	2706	0010133	0030	14843							
149		OBS	0047	0830	34768	2707			14845							
		STD	0050	0831	3477	2706	0010152	0050	14846							
149		OBS	0069	0832	34769	2706			14850							
		STD	0075	0828	3477	2707	0010153	0076	14849							
149		OBS	0092	0817	34767	2709			14848							
		STD	0100	0783	3480	2716	0009287	0100	14837							
		STD	0125	0692	3490	2737	0007349	0121	14807							
149		OBS	0137	0656	34938	2745			14795							
		STD	0150	0655	3494	2746	0006584	0138	14797							
		STD	0200	0644	3496	2749	0006376	0171	14801							
		STD	0250	0621	3498	2753	0006007	0201	14800							
149		OBS	T0275	0605	34991	2756			14798							
		STD	0300	0578	3496	2757	0005654	0231	14791							
149		OBS	T0363	0524	34923	2761			14779							
		STD	0400	0506	3493	2763	0005157	0285	14778							
149		OBS	0456	0483	34937	2767			14777							
		STD	0500	0470	3494	2768	0004750	0334	14779							
149		OBS	0548	0456	34944	2770			14782							
		STD	0600	0440	3494	2772	0004533	0381	14784							
		STD	0700	0415	3493	2774	0004388	0425	14790							
149		OBS	0732	0408	34929	2774			14792							
		STD	0800	0397	3493	2775	0004299	0469	14798							
		STD	0900	0382	3493	2777	0004236	0511	14809							
149		OBS	T0917	0380	34925	2777			14811							
		STD	1000	0370	3493	2778	0006172	0553	14821							
		STD	1100	0362	3493	2779	0004145	0595	14834							
		STD	1200	0355	3493	2780	0004139	0636	14848							
		STD	1300	0352	3493	2780	0004166	0678	14863							
149		OBS	T1388	0351	34933	2780			14878							

IDENTIFY CODE	CRUISE NUMBER	SHIP CODE	LATITUDE	LONGITUDE	DRIFT INDICATOR	MARSDEN SQUARE	STATION TIME (G.m.t.) MONTH	DAY	HR. L/D	YEAR	ORIGINATOR'S CRUISE NUMBER	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	SEA SAMPLE	WAVE OBSERVATIONS DIR.	HGT.	PER.	SEA ANT.	WEATHER CODE	*WIND CLOUD TYPE	*WIND CLOUD AMT	NODC STATION NUMBER
31	1186	SS	52510N	035230W		184	25	11	30	118	1967	C17	002		19	1	8			3	6	0002

*DT WATER COLOR	*SVD TRANS. (m.)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mb.)	AIR TEMPERATURE °C DRY BULB	AIR TEMPERATURE °C WET BULB	VIS. CODE	NUMBER OBS. LEVELS	SPECIAL OBSERVATIONS
		19	S06	132	083	076	7		

CAST and TIME DURATION or REMARKS TIME	CAST NO.	CARD TYPE	DEPTH (m.)	ETC	t°...	SIGMA-t	SPECIFIC VOLUME ANOMALY - 1	2nd DYN. ST. 1	COMPUTED SOUND VELOCITY m./sec	O_2 ml./l.	*AMBIENT LIGHT PO_2 -P	*AMBIENT LIGHT TOTAL-P	*AMBIENT LIGHT NO_3 -N	*AMBIENT LIGHT NO_2 -N	*MEASURED SOUND VELOCITY $b\,O_2$-b	*MEASURED SOUND VELOCITY alt
		STD	0000	0823	3479	2709	0009798	0000	14835							
118		OBS	0000	0823	34789	2709			14835							
		STD	0010	0816	3479	2711	0009670	0009	14834							
118		OBS	0010	0816	34793	2711			14834							
		STD	0020	0815	3480	2712	0009607	0019	14836							
		STD	0030	0815	3481	2712	0009572	0029	14837							
118		OBS	0032	0815	34811	2712			14839							
		STD	0050	0815	3481	2713	0009572	0048	14841							
118		OBS	0050	0815	34815	2713			14841							
		STD	0075	0811	3482	2713	0009527	0072	14843							
118		OBS	0076	0811	34819	2714			14844							
		STD	0100	0807	3482	2715	0009472	0095	14846							
118		OBS	0109	0805	34826	2715			14847							
		STD	0125	0727	3487	2730	0009035	0117	14820							
118		OBS	0149	0649	34926	2745			14794							
		STD	0150	0649	3493	2745	0006618	0135	14794							
		STD	0200	0639	3499	2751	0006104	0167	14799							
118		OBS	T0200	0639	34989	2751			14799							
		STD	0250	0576	3494	2756	0005747	0197	14781							
		STD	0300	0526	3490	2759	0005456	0225	14769							
118		OBS	T0368	0479	34885	2763			14761							
		STD	0400	0472	3490	2765	0004991	0277	14763							
118		OBS	0493	0455	34927	2769			14772							
		STD	0500	0454	3493	2769	0004660	0325	14773							
118		OBS	T0590	0439	34942	2772			14782							
		STD	0600	0437	3494	2772	0004474	0371	14782							
		STD	0700	0418	3494	2774	0004394	0415	14791							
118		OBS	0793	0402	34930	2775			14800							
		STD	0800	0401	3493	2775	0004335	0459	14801							
		STD	0900	0393	3493	2776	0004321	0502	14814							
		STD	1000	0385	3493	2777	0004304	0545	14827							
		STD	1100	0377	3493	2778	0004292	0588	14840							
		STD	1200	0369	3493	2779	0004276	0631	14854							
		STD	1300	0362	3493	2779	0004267	0674	14867							
		STD	1400	0354	3493	2780	0004254	0717	14881							
		STD	1500	0348	3494	2781	0004239	0759	14895							
		STD	1750	0332	3494	2783	0004209	0865	14931							
		STD	2000	0317	3494	2784	0004184	0970	14967							
156		OBS	T2186	0308	34941	2785			14995							
		STD	2500	0291	3494	2787	0004164	1178	15042							
156		OBS	T2726	0286	34938	2787			15078							
		STD	3000	0291	3494	2787	0004446	1394	15128							
156		OBS	T3293	0296												
156		OBS	T3500	0283	34949	2788			15212							

TABLE VIII.—Observed and interpolated oceanographic data from stations taken by USCGC ESCANABA, at Ocean Station CHARLIE, 11 January—31 January 1968, prepared from NODC Listing No. 31–1201.

REFERENCE	SHIP CODE	LATITUDE	LONGITUDE	DRIFT INDICATOR	MARSDEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX DEPTH OF SMPL'S	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
											CRUISE NO	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
311201	EN	5245 N	03530 W		184	25	01	11	138	1968	C18	001	3292	14	26	3	3		X1	3	6	0001

WATER		WIND			BAROMETER (mbs)	AIR TEMP °C		VIS CODE	NO OBS'VS DEPTH	SPECIAL OBSERVATIONS
COLOR CODE	TRANS (m)	DIR	SPEED OR FORCE			DRY BULB	WET BULB			
		08	S23		064	067	061	7	14	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-E10⁵	Δ D DYN M E 10⁵	SOUND VELOC FT	O2 ml/l	PO4-P µg-at/l	TOTAL-P µg at	NO2-N µg-at	NO3-N µg at	SiO4-Si µg-at/l	pH
		STD	0000	0745	3467	2711	0009598	0000	14804							
138		OBS	0000	0745	34666	2711			14804							
138		OBS	0009	0741	34668	2712			14804							
		STD	0010	0741	3467	2712	0009546	0010	14804							
		STD	0020	0741	3467	2712	0009555	0019	14805							
138		OBS	0029	0737	34669	2713			14805							
		STD	0030	0735	3467	2713	0009498	0029	14805							
138		OBS	0045	0719	34658	2714			14801							
		STD	0050	0719	3466	2715	0009373	0048	14802							
138		OBS	0067	0718	34666	2715			14804							
		STD	0075	0716	3473	2720	0008851	0070	14806							
138		OBS	0090	0712	34822	2728			14808							
		STD	0100	0688	3484	2733	0007699	0091	14800							
		STD	0125	0644	3489	2743	0006790	0109	14788							
138		OBS	0135	0632	34906	2746			14785							
		STD	0150	0629	3493	2748	0006437	0126	14786							
138		OBS	T0182	0620	34973	2753			14788							
		STD	0200	0602	3497	2755	0005768	0156	14784							
		STD	0250	0559	3495	2759	0005451	0184	14775							
		STD	0300	0525	3494	2762	0005178	0210	14769							
138		OBS	T0365	0493	34934	2765			14767							
		STD	0400	0487	3494	2766	0004846	0261	14770							
138		OBS	0449	0473	34942	2768			14772							
		STD	0500	0443	3492	2770	0004592	0308	14768							
138		OBS	T0536	0428	34908	2770			14768							
		STD	0600	0427	3492	2771	0004518	0353	14778							
		STD	0700	0420	3494	2774	0004403	0398	14792							
138		OBS	0717	0418	34940	2774			14794							
		STD	0800	0402	3493	2775	0004341	0442	14801							
138		OBS	0896	0386	34918	2776			14810							
		STD	0900	0386	3492	2776	0004331	0485	14811							
		STD	1000	0380	3492	2777	0004310	0528	14825							
		STD	1100	0374	3493	2778	0004287	0571	14839							
		STD	1200	0367	3493	2779	0004261	0614	14853							
		STD	1300	0361	3494	2780	0004240	0656	14867							
138		OBS	T1353	0358	34940	2780			14875							

NODC REF ID NO		SHIP CODE	LATITUDE	LONGITUDE	DRIFT INDICATOR	MARSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	BAR SMPL	WAVE OBSERVATIONS				WEATHER CODE	CLOUD		NODC STATION NUMBER
COUNTRY CODE	CRUISE NUMBER										CRUISE NUMBER	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
31	1201	EN	5227 N	03523 W		184	25	01	12	008	1968	C18	002	3840	1	24	3	3		X1	7	3	0002

°DT	°S‰	WIND			BAROMETER	AIR TEMPERATURE °C		VIS CODE	NUMBER OBS LEVELS	SPECIAL OBSERVATIONS
WATER COLOR	TRANS (m)	DIR	SPEED OR FORCE			DRY BULB	WET BULB			
		24	S28		881	028	022	7	14	

CAST DURATION OR RECORDED TIME HR 1/10	CAST NO	CARD TYPE	DEPTH (m)	T °C	S °/‰	SIGMA-T	SPECIFIC VOLUME ANOMALY - E 10⁵	ΔD DYN M E 10⁵	COMPUTED SOUND VELOCITY m/sec	O_2 ml/l	*AMBIENT LIGHT PO4-P µg-at/l	TOTAL-P µg-at/l	NO2-N µg-at/l	NO3-N µg-at/l	*MEASURED SOUND VELOCITY Si O4-Si µg-at/l	pH
		STD	0000	0710	3465	2715	0009263	0000	14790							
008		OBS	0000	0710	34648	2715			14790							
		STD	0010	0710	3464	2714	0009370	0009	14791							
008		OBS	0010	0710	34636	2714			14791							
		STD	0020	0710	3463	2714	0009395	0018	14793							
		STD	0030	0710	3463	2714	0009420	0028	14795							
008		OBS	0032	0710	34633	2714			14795							
008		OBS	0049	0710	34635	2714			14798							
		STD	0050	0710	3464	2714	0009434	0047	14798							
		STD	0075	0712	3466	2715	0009357	0070	14803							
008		OBS	0076	0712	34656	2715			14803							
		STD	0100	0648	3478	2734	0007597	0091	14784							
008		OBS	0101	0646	34789	2735			14783							
		STD	0125	0610	3487	2746	0006515	0109	14774							
		STD	0150	0580	3492	2753	0005810	0124	14766							
008		OBS	0157	0578	34921	2754			14766							
008		OBS	T0199	0544	34913	2758			14760							
		STD	0200	0543	3491	2758	0005475	0152	14760							
		STD	0250	0517	3491	2761	0005219	0179	14757							
		STD	0300	0493	3491	2764	0004993	0205	14756							
		STD	0400	0456	3492	2768	0004671	0253	14757							
008		OBS	T0404	0455	34916	2768			14757							
008		OBS	0487	0435	34932	2772			14763							
		STD	0500	0433	3493	2772	0004384	0298	14764							
008		OBS	T0593	0419	34936	2774			14774							
		STD	0600	0418	3493	2774	0004295	0342	14774							
		STD	0700	0400	3492	2775	0004283	0385	14783							
008		OBS	0773	0389	34915	2775			14791							
		STD	0800	0386	3491	2775	0004268	0427	14794							
		STD	0900	0374	3491	2776	0004254	0470	14805							
008		OBS	T0966	0368	34909	2777			14814							
		STD	1000	0367	3491	2777	0004252	0512	14819							
		STD	1100	0364	3492	2778	0004258	0555	14835							
		STD	1200	0361	3492	2779	0004263	0598	14850							
		STD	1300	0359	3493	2779	0004275	0640	14866							
		STD	1400	0356	3493	2780	0004276	0683	14882							
008		OBS	T1459	0354	34937	2780			14891							

TABLE VIII.—Continued

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DUPLICATE	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR 1/10	YEAR	ORIGINATOR'S CRUISE NO	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
311201	EN	5224 N	03459 W		184	24	01	14	226		1968	C18	003	28[illegible]	09	29	3	3		X8	9	4		0003

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP °C DRY °BULB	AIR TEMP °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		27	S27	990	039	022	7	13	

MESSENGR TIME OF MB 1/10	CAST NO	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^5	$\Sigma\Delta D$ DYN. M x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_4-Si µg-at/l	pH	SCC
		STD	0000	0702	3466	2717	0009081	0000	14787								
	226	OBS	0000	0702	34658	2717			14787								
		STD	0010	0699	3466	2717	0009042	0009	14787								
	226	OBS	0010	0699	34660	2717			14787								
		STD	0020	0699	3466	2717	0009058	0018	14789								
		STD	0030	0699	3466	2717	0009074	0027	14791								
	226	OBS	0032	0699	34659	2717			14791								
	226	OBS	0049	0699	34658	2717			14794								
		STD	0050	0699	3466	2717	0009106	0045	14794								
		STD	0075	0700	3467	2718	0009114	0068	14798								
	226	OBS	0075	0700	34666	2718			14798								
	226	OBS	0099	0682	34776	2729			14797								
		STD	0100	0679	3478	2730	0008027	0090	14796								
		STD	0125	0621	3482	2740	0007018	0108	14777								
		STD	0150	0579	3486	2749	0006217	0125	14765								
	226	OBS	0150	0579	34862	2749			14765								
		STD	0200	0550	3491	2757	0005574	0154	14762								
	226	OBS	T0203	0548	34912	2757			14762								
		STD	0250	0524	3492	2760	0005267	0181	14760								
		STD	0300	0501	3492	2764	0005012	0207	14759								
		STD	0400	0457	3494	2769	0004534	0255	14757								
	226	OBS	T0405	0455	34936	2770			14757								
	226	OBS	0497	0420	34909	2771			14758								
		STD	0500	0419	3491	2772	0004393	0300	14758								
	226	OBS	T0586	0404	34914	2774			14766								
		STD	0600	0403	3492	2774	0004236	0343	14768								
		STD	0700	0396	3493	2776	0004177	0385	14782								
	226	OBS	0765	0390	34934	2777			14790								
		STD	0800	0387	3493	2777	0004166	0426	14795								
		STD	0900	0376	3493	2778	0004127	0468	14807								
	226	OBS	T0938	0372	34919	2777			14811								

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DUPLICATE	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR 1/10	YEAR	ORIGINATOR'S CRUISE NO	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
311201	EN	52471N	035152W		184	25	01	15	120		1968	C18	004	3155	12	31	2	2		X1	9	6		0004

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP °C DRY BULB	AIR TEMP °C WET BULB	VIS. CODE	NO. OBS DEPTHS	SPECIAL OBSERVATIONS
		32	S27	970	072	033	7	14	

MESSENGR TIME OF MB 1/10	CAST NO	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^5	$\Sigma\Delta D$ DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_4-Si µg-at/l	pH	SCC
		STD	0000	0692	3470	2721	0008658	0000	14783								
	120	OBS	0000	0692	34697	2721			14783								
	120	OBS	0009	0686	34685	2721			14782								
		STD	0010	0686	3469	2721	0008685	0009	14783								
		STD	0020	0686	3468	2721	0008723	0017	14784								
		STD	0030	0686	3468	2721	0008754	0026	14786								
	120	OBS	0030	0686	34680	2721			14786								
	120	OBS	0045	0685	34680	2721			14788								
		STD	0050	0686	3468	2721	0008778	0044	14789								
	120	OBS	0067	0688	34685	2721			14793								
		STD	0075	0688	3469	2721	0008779	0066	14794								
	120	OBS	0089	0687	34695	2722			14796								
		STD	0100	0655	3475	2730	0007937	0086	14786								
		STD	0125	0604	3486	2746	0006506	0105	14771								
	120	OBS	0132	0595	34885	2749			14769								
		STD	0150	0599	3492	2751	0006032	0120	14774								
	120	OBS	T0179	0600	34958	2754			14780								
		STD	0200	0584	3495	2755	0005692	0150	14777								
		STD	0250	0548	3493	2758	0005466	0177	14770								
		STD	0300	0516	3492	2761	0005219	0204	14765								
	120	OBS	T0341	0494	34913	2763			14763								
		STD	0400	0465	3491	2767	0004790	0254	14760								
	120	OBS	0420	0460	34913	2767			14762								
	120	OBS	T0496	0461	34954	2770			14775								
		STD	0500	0460	3495	2770	0004567	0301	14775								
		STD	0600	0434	3495	2773	0004369	0346	14781								
	120	OBS	0656	0420	34943	2774			14785								
		STD	0700	0408	3494	2775	0004263	0389	14787								
		STD	0800	0385	3493	2776	0004179	0431	14794								
	120	OBS	T0813	0383	34923	2776			14795								
		STD	0900	0378	3493	2777	0004183	0473	14807								
		STD	1000	0373	3493	2778	0004175	0515	14822								
		STD	1100	0367	3493	2779	0004172	0556	14836								
		STD	1200	0361	3494	2780	0004166	0598	14851								
	120	OBS	T1243	0359	34938	2780			14857								

TABLE VIII.—Continued

REFERENCE CSTP CODE	REFERENCE ID NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	UNIT INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR 1/10	YEAR	ORIGINATOR'S CRUISE NO	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT	NODC STATION NUMBER
311201		EN	5249 N	03521 W		184	25	01	16	121	1968	C18	005	2926	14	28	4	2		X2	4	8	0005

WATER COLOR CODE	WATER TRANS (m)	WIND DIR	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP °C DRY BULB	AIR TEMP °C WET BULB	VIS CODE	NO OBS DEPTHS	SPECIAL OBSERVATIONS
		21	S18	122	056	056	7	14	

MESSENGR TIME OF HR 1/10	CAST NO	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10⁸	ΣΔD DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₃-N µg-at/l	NO₂-N µg-at/l	SiO₄-Si µg-at/l	pH	QCC
		STD	0000	0729	3478	2722	0008547	0000	14799								
	121	OBS	0000	0729	34778	2722			14799								
		STD	0010	0728	3477	2722	0008580	0009	14800								
	121	OBS	0010	0728	34774	2722			14800								
		STD	0020	0729	3477	2722	0008639	0017	14802								
		STD	0030	0730	3477	2721	0008705	0026	14804								
	121	OBS	0032	0730	34764	2721			14804								
	121	OBS	0047	0729	34773	2722			14807								
		STD	0050	0731	3479	2723	0008569	0043	14808								
	121	OBS	0072	0741	34847	2726			14816								
		STD	0075	0741	3485	2726	0008300	0064	14817								
	121	OBS	0097	0740	34852	2727			14820								
		STD	0100	0731	3485	2728	0008184	0085	14817								
		STD	0125	0664	3486	2738	0007295	0104	14795								
	121	OBS	0144	0627	34861	2743			14783								
		STD	0150	0621	3487	2744	0006682	0122	14782								
	121	OBS	0190	0583	34913	2753			14774								
		STD	0200	0575	3491	2754	0005864	0153	14772								
		STD	0250	0540	3491	2758	0005526	0181	14766								
		STD	0300	0511	3491	2761	0005272	0208	14763								
	121	OBS	T0378	0478	34900	2764			14762								
		STD	0400	0474	3491	2766	0004917	0259	14764								
	121	OBS	0471	0457	34926	2769			14769								
		STD	0500	0447	3493	2770	0004601	0307	14770								
	121	OBS	T0558	0430	34924	2772			14772								
		STD	0600	0425	3493	2773	0004413	0352	14777								
		STD	0700	0411	3493	2774	0004350	0396	14788								
	121	OBS	0753	0404	34933	2775			14794								
		STD	0800	0396	3493	2776	0004263	0439	14798								
		STD	0900	0382	3493	2777	0004235	0481	14809								
	121	OBS	T0925	0379	34924	2777			14812								
		STD	1000	0371	3493	2778	0004185	0524	14821								
		STD	1100	0362	3493	2779	0004141	0565	14834								
		STD	1200	0356	3493	2780	0004130	0607	14848								
		STD	1300	0353	3494	2780	0004153	0648	14864								
		STD	1400	0353	3494	2781	0004211	0690	14881								
	121	OBS	T1429	0353	34939	2781			14886								

REFERENCE CSTP CODE	REFERENCE ID NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	UNIT INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR 1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT	NODC STATION NUMBER
311201		EN	52505N	03533 W		184	25	01	17	124	1968	C18	006	3795	18	21	3	3		X2	1	8	0006

WATER COLOR CODE	WATER TRANS (m)	WIND DIR	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP °C DRY BULB	AIR TEMP °C WET BULB	VIS CODE	NO OBS DEPTHS	SPECIAL OBSERVATIONS
		19	S13	909	078	072	7	14	

MESSENGR TIME OF HR 1/10	CAST NO	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10⁸	ΣΔD DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at	TOTAL-P µg-at	NO₃-N µg-at	NO₂-N µg-at/l	SiO₄-Si µg-at/l	pH	QCC
		STD	0000	0690	3470	2722	0008610	0000	14783								
	124	OBS	0000	0690	34700	2722			14783								
		STD	0010	0689	3470	2722	0008615	0009	14784								
	124	OBS	0013	0689	34697	2722			14784								
		STD	0020	0689	3470	2722	0008654	0017	14785								
		STD	0030	0688	3470	2722	0008672	0026	14787								
	124	OBS	0038	0688	34694	2722			14788								
		STD	0050	0688	3470	2722	0008700	0043	14790								
	124	OBS	0059	0687	34695	2722			14791								
		STD	0075	0685	3470	2722	0008698	0065	14793								
	124	OBS	0089	0683	34695	2722			14794								
		STD	0100	0667	3476	2730	0008018	0086	14791								
	124	OBS	0120	0639	34852	2741			14784								
		STD	0125	0632	3486	2742	0006859	0105	14782								
		STD	0150	0603	3490	2749	0006231	0121	14775								
	124	OBS	0179	0576	34930	2755			14770								
		STD	0200	0566	3493	2756	0005619	0151	14769								
	124	OBS	T0238	0547	34931	2759			14768								
		STD	0250	0540	3493	2759	0005369	0178	14767								
		STD	0300	0511	3493	2763	0005085	0204	14763								
		STD	0400	0464	3493	2768	0004652	0253	14760								
	124	OBS	T0478	0437	34924	2771			14762								
		STD	0500	0431	3492	2771	0004425	0298	14763								
	124	OBS	0594	0413	34921	2773			14771								
		STD	0600	0413	3492	2773	0004335	0342	14772								
		STD	0700	0407	3493	2775	0004274	0385	14786								
	124	OBS	T0709	0406	34935	2775			14787								
		STD	0800	0391	3492	2775	0004286	0428	14796								
		STD	0900	0378	3491	2776	0004299	0471	14807								
	124	OBS	0941	0373	34904	2776			14812								
		STD	1000	0368	3491	2777	0004268	0514	14820								
		STD	1100	0360	3492	2779	0004184	0556	14833								
	124	OBS	T1168	0356	34926	2779			14843								
		STD	1200	0354	3493	2780	0004120	0597	14847								
		STD	1300	0349	3494	2781	0004067	0638	14862								
		STD	1400	0345	3494	2782	0004097	0679	14877								
		STD	1500	0342	3495	2783	0004064	0720	14893								
		STD	1750	0339	3496	2784	0004144	0823	14934								
	124	OBS	T1757	0339	34963	2784			14935								

TABLE VIII.—Continued

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° '1/10	LONGITUDE ° '1/10	DEEP INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR 1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYP	CLOUD CODES AMT		NODC STATION NUMBER
311201		EN	52565N	035380W		184	25	01	20	125	1968	C18	007	2686	06	23			2	X1	6	5		0007

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		22	S23	186	078	061	7	11	

MESSENGR TIME OR T HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S °/₀₀	SIGMA-T	SPECIFIC VOLUME ANOMALY-10⁸	Σ Δ D DYN. M. Σ 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	QUAL
		STD	0000	0708													
125		OBS	0000	0708													
		STD	0010	0708													
125		OBS	0010	0708													
		STD	0020	0708													
		STD	0030	0708													
125		OBS	0031	0708													
125		OBS	0047	0706													
		STD	0050	0707													
125		OBS	0071	0711													
		STD	0075	0711													
125		OBS	0097	0710													
		STD	0100	0710													
		STD	0125	0710													
		STD	0150	0710													
125		OBS	0157	0710													
125		OBS	T0187	0650													
		STD	0200	0641													
		STD	0250	0608													
		STD	0300	0577													
125		OBS	T0387	0528													
		STD	0400	0520													
125		OBS	0476	0485													
		STD	0500	0479													
125		OBS	T0570	0472													

REFERENCE CTRY CODE	REFERENCE ID NO	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEEP INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR 1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYP	CLOUD CODES AMT		NODC STATION NUMBER
311201		EN	5257 N	03522 W		184	25	01	21	165	1968	C18	008	2368	14	21	2	2		X3	3	7		0008

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		19	S20	230	100	089	6	11	

MESSENGR TIME OR T HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S °/₀₀	SIGMA-T	SPECIFIC VOLUME ANOMALY-10⁸	Σ Δ D DYN. M. Σ 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	QUAL
		STD	0000	0699	3477	2726	0008221	0000	14787								
165		OBS	0000	0699	34768	2726			14787								
		STD	0010	0699	3477	2726	0008237	0008	14789								
165		OBS	0011	0699	34768	2726			14789								
		STD	0020	0699	3477	2726	0008263	0016	14790								
		STD	0030	0698	3476	2726	0008287	0025	14792								
165		OBS	0031	0698	34764	2726			14792								
165		OBS	0047	0697	34768	2726			14794								
		STD	0050	0698	3477	2726	0008273	0041	14795								
165		OBS	0070	0704	34778	2726			14801								
		STD	0075	0703	3478	2726	0008311	0062	14801								
165		OBS	0095	0701	34796	2728			14804								
		STD	0100	0695	3480	2729	0008090	0083	14802								
		STD	0125	0667	3483	2735	0007536	0102	14796								
165		OBS	0141	0653	34854	2739			14793								
		STD	0150	0648	3487	2741	0007028	0120	14793								
165		OBS	T0192	0623	34929	2749			14791								
		STD	0200	0618	3493	2750	0006269	0154	14790								
		STD	0250	0585	3493	2754	0005922	0184	14785								
		STD	0300	0554	3494	2758	0005530	0213	14781								
		STD	0400	0500	3494	2765	0005000	0265	14775								
165		OBS	0463	0471	34944	2769			14774								
		STD	0500	0461	3494	2770	0004631	0313	14776								
		STD	0600	0435	3494	2772	0004455	0359	14781								
		STD	0700	0413	3494	2774	0004321	0403	14789								
		STD	0800	0393	3493	2776	0004206	0445	14797								
		STD	0900	0377	3493	2778	0004132	0487	14807								
165		OBS	T0926	0373	34930	2778			14810								
		STD	1000	0363	3493	2779	0004054	0528	14818								
		STD	1100	0353	3493	2780	0004004	0568	14830								
		STD	1200	0345	3493	2781	0003982	0608	14844								
		STD	1300	0340	3494	2782	0003986	0648	14858								
		STD	1400	0339	3494	2782	0004044	0688	14875								
165		OBS	T1444	0339	34938	2782			14882								

Table VIII.—Continued

REFERENCE CSTP CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER.	WAVE OBSERVATIONS SEA AMT.	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT.		NODC STATION NUMBER
31	1201	EN	5244 N	03537 W		184	25	01	22	123	1968	C18	009	3475	1	27	2	2		X2	8	7		0009

* NOTE: WHEN WORK TO PLATE FOR READING ELECTRONICALLY OBSERVED VERBAL DATA PUNCH USE HEADING SHOWN BY ASTERISK, SINCE THEY APPEAR

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NUMBER OBS. LEVELS	SPECIAL OBSERVATIONS
		29	S06	301	061	056	7	11	

MESSENGER TIME OR CAST DURATION HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY ×10⁸	DAD DYN. M. ×10³	COMPUTED SOUND VELOCITY m/sec	O_2 ml/l	*AMBIENT LIGHT PO₄-P µg-at/l	*AMBIENT LIGHT TOTAL-P µg-at/l	*AMBIENT LIGHT NO_3-N µg-at/l	*AMBIENT LIGHT NO_2-N µg-at/l	*MEASURED SOUND VELOCITY Si O_3-Si µg-at/l	*MEASURED SOUND VELOCITY pH
		STD	0000	0694	3481	2730	0007844	0000	14746							
123		OBS	0000	0694	34810	2730			14786							
		STD	0010	0693	3481	2730	0007815	0007	14787							
123		OBS	0014	0692	34818	2731			14787							
		STD	0020	0699	3484	2731	0007723	0015	14791							
		STD	0030	0707	3486	2732	0007658	0023	14796							
123		OBS	0041	0712	34883	2733			14800							
		STD	0050	0711	3488	2733	0007601	0038	14801							
123		OBS	0063	0710	34884	2733			14803							
		STD	0075	0711	3489	2734	0007588	0057	14806							
123		OBS	0095	0712	34899	2734			14810							
		STD	0100	0709	3490	2735	0007538	0076	14809							
		STD	0125	0689	3490	2738	0007276	0095	14805							
123		OBS	0126	0688	34904	2738			14805							
		STD	0150	0651	3493	2745	0006618	0112	14795							
123		OBS	0189	0616	34971	2753			14788							
		STD	0200	0619	3498	2754	0005897	0143	14791							
		STD	0250	0628	3503	2756	0005750	0172	14803							
123		OBS	T0252	0628	35029	2756			14804							
		STD	0300	0596	3501	2759	0005514	0200	14799							
		STD	0400	0535	3498	2764	0005104	0254	14790							
		STD	0500	0481	3496	2769	0004745	0303	14784							
		STD	0600	0434	3494	2772	0004452	0349	14781							
123		OBS	0626	0423	34935	2773			14781							
		STD	0700	0403	3494	2775	0004216	0392	14785							
		STD	0800	0379	3494	2778	0004032	0433	14791							
		STD	0900	0358	3494	2780	0003871	0473	14799							
		STD	1000	0340	3494	2782	0003752	0511	14808							
		STD	1100	0326	3494	2783	0003669	0548	14819							
		STD	1200	0315	3494	2784	0003616	0585	14831							
123		OBS	1250	0311	34936	2785			14838							
		STD	1300	0313	3494	2785	0003645	0621	14847							
		STD	1400	0316	3494	2785	0003727	0658	14865							
		STD	1500	0319	3495	2785	0003801	0695	14883							
		STD	1750	0326	3496	2785	0003960	0792	14929							
123		OBS	T1867	0330	34971	2786			14950							

REFERENCE CSTP CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDICATOR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER.	WAVE OBSERVATIONS SEA AMT.	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT.		NODC STATION NUMBER
311	201	EN	53045N	035325W		184	35	01	23	207	1968	C18	010	3574	13	15	3	2		X1	3	5		0010

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		16	S23	284	089	078	7	11	

MESSENGER TIME OR CAST DURATION HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY ×10⁸	DAD DYN. M. ×10³	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	Si O_3-Si µg-at/l	pH	NODC CODE
		STD	0000	0716	3488	2732	0007642	0000	14795								
207		OBS	0000	0716	34876	2732			14795								
207		OBS	0009	0713	34876	2732			14796								
		STD	0010	0713	3488	2733	0007589	0008	14796								
		STD	0020	0713	3488	2733	0007605	0015	14797								
207		OBS	0027	0713	34884	2733			14799								
		STD	0030	0713	3489	2733	0007550	0023	14799								
207		OBS	0045	0714	34894	2734			14802								
		STD	0050	0713	3490	2734	0007506	0038	14803								
207		OBS	0068	0712	34905	2735			14805								
		STD	0075	0712	3490	2735	0007504	0057	14806								
207		OBS	0086	0712	34902	2735			14808								
		STD	0100	0712	3491	2735	0007508	0075	14810								
		STD	0125	0712	3492	2736	0007468	0094	14815								
207		OBS	0131	0712	34923	2736			14816								
		STD	0150	0701	3495	2740	0007136	0112	14815								
207		OBS	T0171	0689	34979	2744			14814								
		STD	0200	0664	3498	2747	0006534	0147	14809								
		STD	0250	0622	3497	2752	0006118	0178	14800								
		STD	0300	0584	3496	2756	0005755	0208	14793								
		STD	0400	0519	3494	2763	0005199	0263	14783								
207		OBS	0428	0503	34940	2765			14781								
		STD	0500	0479	3494	2767	0004866	0313	14783								
		STD	0600	0450	3493	2770	0004706	0361	14788								
		STD	0700	0424	3493	2773	0004502	0407	14793								
		STD	0800	0403	3493	2775	0004352	0451	14801								
207		OBS	T0851	0393	34929	2776			14806								
		STD	0900	0385	3493	2777	0004233	0494	14810								
		STD	1000	0370	3493	2778	0004144	0536	14821								
		STD	1100	0360	3493	2779	0004110	0577	14833								
		STD	1200	0353	3494	2781	0004035	0618	14847								
207		OBS	T1264	0351	34943	2781			14857								

TABLE VIII.—Continued

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH RECORDS	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER.	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYP.	CLOUD CODES AMT.		NODC STATION NUMBER
311201		EN	52434N	035313W		184	25	01	24	170	1968	C18	011	3566	18	15	4	2		X4	3	7		0011

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		16	S12	301	083	083	6	11	

MESSENGR TIME HR 1/10	T	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta D$ DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	T QC
			STD	0000	0709	3485	2730	0007780	0000	14792								
170			OBS	0000	0709	34845	2730			14792								
			STD	0010	0707	3485	2731	0007762	0008	14793								
170			OBS	0013	0706	34846	2731			14793								
			STD	0020	0706	3485	2731	0007761	0016	14794								
			STD	0030	0705	3485	2731	0007773	0023	14796								
170			OBS	0039	0705	34846	2731			14797								
			STD	0050	0705	3485	2731	0007801	0039	14799								
170			OBS	0059	0705	34846	2731			14800								
			STD	0075	0707	3487	2733	0007686	0058	14804								
170			OBS	0087	0708	34878	2733			14806								
			STD	0100	0694	3489	2736	0007407	0077	14803								
170			OBS	0119	0674	34904	2740			14799								
			STD	0125	0666	3491	2742	0006927	0095	14796								
			STD	0150	0640	3493	2747	0006478	0112	14791								
170			OBS	0178	0618	34951	2751			14787								
			STD	0200	0612	3496	2753	0005969	0143	14788								
170			OBS	T0236	0602	34979	2755			14790								
			STD	0250	0594	3498	2756	0005678	0172	14789								
			STD	0300	0567	3497	2759	0005453	0200	14787								
			STD	0400	0518	3496	2765	0005053	0252	14783								
			STD	0500	0475	3495	2769	0004729	0301	14782								
170			OBS	0591	0442	34942	2772			14783								
170			OBS	T1185	0356	34922	2779			14846								
170			OBS	1776Q	0319	34944	2784											

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH RECORDS	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER.	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYP.	CLOUD CODES AMT.		NODC STATION NUMBER
311201		EN	5300 N	03520 W		184	35	01	25	121	1968	C18	012	3475	16	18	3	2		X4	5	5		0012

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		17	S15	288	083	083	5	11	

MESSENGR TIME HR 1/10	T	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta D$ DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	T QC
			STD	0000	0682	3475	2726	0008162	0000	14780								
121			OBS	0000	0682	34746	2726			14780								
			STD	0010	0679	3474	2726	0008173	0008	14781								
121			OBS	0011	0679	34742	2727			14781								
			STD	0020	0679	3474	2726	0008190	0016	14782								
			STD	0030	0680	3474	2727	0008203	0025	14784								
121			OBS	0034	0680	34743	2726			14785								
			STD	0050	0686	3476	2727	0008189	0041	14790								
121			OBS	0054	0687	34770	2728			14791								
			STD	0075	0694	3482	2731	0007888	0061	14798								
121			OBS	0081	0696	34826	2731			14800								
			STD	0100	0665	3484	2736	0007396	0080	14791								
121			OBS	0109	0653	34854	2739			14788								
			STD	0125	0645	3488	2742	0006877	0098	14788								
			STD	0150	0633	3492	2747	0006442	0115	14788								
121			OBS	0164	0626	34934	2749			14787								
			STD	0200	0610	3496	2753	0005944	0146	14787								
121			OBS	T0219	0601	34967	2755			14787								
			STD	0250	0583	3496	2756	0005674	0175	14785								
			STD	0300	0554	3496	2760	0005381	0202	14781								
			STD	0400	0504	3495	2765	0004974	0254	14777								
			STD	0500	0460	3495	2770	0004567	0302	14775								
121			OBS	0546	0443	34944	2772			14776								
			STD	0600	0435	3494	2772	0004450	0347	14781								
			STD	0700	0419	3493	2773	0004446	0391	14791								
			STD	0800	0404	3493	2775	0004361	0435	14802								
			STD	0900	0388	3492	2776	0004345	0479	14812								
			STD	1000	0373	3491	2776	0004324	0522	14822								
121			OBS	T1095	0358	34904	2777			14831								
121			OBS	1644Q	0341	34969	2784											

TABLE VIII.—Continued

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DUPE NODC	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF TEMP.'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PRD	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYP	CLOUD CODES AMT		NODC STATION NUMBER
31	1201	EN	52447N	035264W		18	4	25	01	26	145	1968	C18	013		9109	17	31	2	2		X2	4	7		0013

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		33	S20	240	044	033	7	11	

MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta D$ DYN. DL. $\Sigma 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_4-Si µg-at/l	pH	QUAL
		STD	0000	0699	3481	2729	0007901	0000	14788								
145		OBS	0000	0699	34811	2729			14788								
		STD	0010	0697	3481	2729	0007902	0008	14789								
145		OBS	0012	0697	34806	2729			14789								
		STD	0020	0698	3481	2729	0007938	0016	14790								
		STD	0030	0699	3481	2729	0007942	0024	14792								
145		OBS	0036	0699	34812	2729			14794								
		STD	0050	0701	3484	2731	0007792	0039	14797								
145		OBS	0055	0702	34847	2732			14798								
		STD	0075	0711	3486	2731	0007840	0059	14805								
145		OBS	0080	0712	34860	2731			14807								
		STD	0100	0710	3487	2732	0007773	0079	14809								
145		OBS	0111	0709	34875	2733			14811								
		STD	0125	0684	3489	2737	0007314	0097	14803								
		STD	0150	0648	3492	2745	0006656	0115	14794								
145		OBS	0166	0632	34931	2748			14790								
		STD	0200	0622	3496	2751	0006097	0147	14792								
145		OBS	T0223	0615	34972	2753			14793								
		STD	0250	0599	3497	2755	0005801	0177	14791								
		STD	0300	0570	3497	2759	0005505	0205	14788								
		STD	0400	0518	3496	2764	0005068	0258	14783								
		STD	0500	0473	3495	2769	0004720	0307	14781								
145		OBS	0565	0448	34945	2771			14781								
145		OBS	1153	0358	34913	2778			14841								
		STD	1200	0354	3492	2779	0004216		14847								
		STD	1300	0345	3493	2780	0004121		14860								
		STD	1400	0339	3494	2782	0004059		14875								
		STD	1500	0335	3494	2783	0004027		14890								
		STD	1750	0332	3497	2785	0004016		14931								
145		OBS	T1750	0332	34965	2785			14931								

REFERENCE CTRY CODE	REFERENCE NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DUPE NODC	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF TEMP.'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PRD	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYP	CLOUD CODES AMT		NODC STATION NUMBER
31	1201	EN	5246 N	03528 W		18	4	25	01	27	119	1968	C18	014		3200	18	33	4	2		X1	3	6		0014

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		17	S15	227	056	033	7	11	

MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta D$ DYN. DL. $\Sigma 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_4-Si µg-at/l	pH	QUAL
		STD	0000	0679	3471	2724	0008384	0000	14778								
119		OBS	0000	0679	34711	2724			14778								
119		OBS	0009	0677	34711	2724			14779								
		STD	0010	0676	3471	2725	0008361	0008	14779								
		STD	0020	0670	3471	2725	0008329	0017	14778								
		STD	0030	0666	3470	2725	0008315	0025	14778								
119		OBS	0035	0664	34702	2725			14778								
		STD	0050	0662	3470	2726	0008289	0042	14780								
119		OBS	0054	0661	34704	2726			14780								
		STD	0075	0691	3477	2727	0008220	0062	14796								
119		OBS	0083	0696	34789	2728			14800								
		STD	0100	0694	3483	2731	0007854	0082	14802								
119		OBS	0112	0687	34855	2734			14802								
		STD	0125	0657	3487	2740	0007107	0101	14792								
		STD	0150	0609	3489	2748	0006381	0118	14778								
119		OBS	0169	0583	34899	2752			14770								
		STD	0200	0567	3492	2755	0005706	0148	14769								
119		OBS	T0226	0554	34931	2758			14769								
		STD	0250	0544	3493	2759	0005403	0176	14768								
		STD	0300	0525	3493	2761	0005230	0203	14769								
		STD	0400	0490	3494	2766	0004919	0253	14771								
		STD	0500	0459	3494	2769	0004652	0301	14775								
119		OBS	0576	0438	34939	2772			14779								
119		OBS	1170	0359	34927	2779			14844								
		STD	1200	0356	3493	2780	0004145		14848								
		STD	1300	0348	3493	2780	0004128		14862								
		STD	1400	0340	3494	2782	0004035		14875								
		STD	1500	0334	3494	2783	0004037		14890								
		STD	1750	0324	3496	2785	0003948		14928								
119		OBS	T1786	0323	34967	2786			14934								

TABLE VIII.—Continued

REFERENCE: CSTY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DUPLICATE DECK	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYP	CLOUD CODES: AMT		NODC STATION NUMBER
311201		EN	5237 N	03532 W		184	25	01	28	123	1968	C18	015	3840	16	23	3	3		X1	4	6		0015

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		25	S29	297	061	039	7	11	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10⁷	∑ Δ D DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SCC
		STD	0000	0695	3478	2728	0008057	0000	14786								
123		OBS	0000	0695	34783	2728			14786								
		STD	0010	0694	3478	2728	0008069	0008	14787								
123		OBS	0012	0694	34782	2728			14787								
		STD	0020	0694	3478	2728	0008083	0016	14789								
		STD	0030	0694	3478	2728	0008099	0024	14790								
123		OBS	0035	0694	34782	2728			14791								
		STD	0050	0695	3478	2728	0008142	0040	14794								
123		OBS	0053	0695	34782	2727			14794								
		STD	0075	0697	3478	2727	0008220	0061	14799								
123		OBS	0080	0697	34778	2727			14800								
		STD	0100	0697	3479	2728	0008191	0081	14803								
123		OBS	0106	0697	34794	2728			14804								
		STD	0125	0697	3479	2728	0008211	0102	14807								
		STD	0150	0696	3479	2728	0008267	0123	14811								
123		OBS	0154	0696	34788	2728			14811								
123		OBS	T0198	0619	34955	2751			14790								
		STD	0200	0617	3495	2751	0006108	0158	14790								
		STD	0250	0580	3495	2756	0005711	0188	14783								
		STD	0300	0546	3495	2760	0005358	0216	14778								
		STD	0400	0487	3494	2766	0004846	0267	14770								
123		OBS	0473	0451	34936	2770			14767								
		STD	0500	0445	3494	2771	0004504	0313	14769								
		STD	0600	0426	3493	2773	0004410	0358	14778								
		STD	0700	0408	3493	2774	0004322	0402	14787								
		STD	0800	0392	3493	2776	0004253	0445	14797								
		STD	0900	0379	3492	2777	0004214	0487	14808								
123		OBS	T0944	0374	34922	2777			14813								
123		OBS	T1554	0345	34947	2782			14903								

REFERENCE: CSTY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DUPLICATE DECK	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYP	CLOUD CODES: AMT		NODC STATION NUMBER
311201		EN	5245 N	03530 W		184	25	01	29	118	1968	C18	016	3109	15	29	3	2		X1	1	2		0016

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		29	S13	091	033	022	7	11	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10⁷	∑ Δ D DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SCC
		STD	0000	0686	3473	2725	0008311	0000	14782								
118		OBS	0000	0686	34733	2725			14782								
		STD	0010	0684	3473	2725	0008301	0008	14782								
118		OBS	0010	0684	34733	2725			14782								
		STD	0020	0685	3473	2725	0008323	0017	14784								
		STD	0030	0685	3473	2725	0008346	0025	14786								
118		OBS	0031	0685	34733	2725			14786								
118		OBS	0049	0685	34739	2725			14789								
		STD	0050	0686	3474	2725	0008346	0042	14790								
118		OBS	0073	0687	34736	2725			14794								
		STD	0075	0685	3473	2725	0008439	0063	14793								
118		OBS	0097	0663	34716	2727			14788								
		STD	0100	0660	3473	2728	0008151	0083	14788								
		STD	0125	0640	3483	2739	0007185	0103	14785								
118		OBS	0145	0627	34882	2745			14784								
		STD	0150	0625	3489	2745	0006583	0120	14784								
118		OBS	T0196	0604	34948	2753			14784								
		STD	0200	0602	3495	2753	0005917	0151	14784								
		STD	0250	0574	3495	2757	0005636	0180	14781								
		STD	0300	0548	3496	2761	0005308	0207	14779								
		STD	0400	0502	3496	2766	0004875	0258	14776								
118		OBS	0471	0473	34966	2770			14776								
		STD	0500	0465	3496	2771	0004521	0305	14778								
		STD	0600	0439	3496	2773	0004383	0350	14783								
		STD	0700	0416	3495	2775	0004275	0393	14790								
		STD	0800	0397	3494	2776	0004208	0435	14799								
		STD	0900	0381	3493	2777	0004171	0477	14809								
118		OBS	T0922	0378	34930	2777			14811								
		STD	1000	0374	3493	2778	0004164	0519	14823								
		STD	1100	0369	3494	2779	0004148	0560	14837								
		STD	1200	0364	3495	2780	0004129	0602	14852								
		STD	1300	0360	3495	2781	0004115	0643	14867								
		STD	1400	0355	3496	2782	0004092	0684	14882								
118		OBS	T1452	0352	34960	2782			14889								

Table VIII.—Continued

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	BLOCK	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR. 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYP	CLOUD CODES: AMT		NODC STATION NUMBER
311201	EN	52437N	035125W		184	25	01	31	119	1968	C18	017		3658	09	27	3	3		X1	3	4		0017

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
		27	S19	274	050	039	7	10	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^8	Σ Δ D DYN. M. Σ 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	
		STD	0000	0665	3476	2730	0007868	0000	14774								
119		OBS	0000	0665	34756	2730			14774								
119		OBS	0009	0662	34756	2730			14774								
		STD	0010	0662	3476	2730	0007846	0008	14774								
		STD	0020	0663	3475	2730	0007896	0016	14776								
		STD	0030	0664	3475	2729	0007946	0024	14778								
119		OBS	0030	0664	34750	2729			14778								
119		OBS	0045	0664	34756	2730			14781								
		STD	0050	0665	3476	2730	0007915	0040	14782								
119		OBS	0072	0668	34761	2730			14787								
		STD	0075	0669	3476	2730	0007983	0059	14788								
119		OBS	0093	0671	34777	2730			14791								
		STD	0100	0671	3479	2731	0007852	0079	14793								
		STD	0125	0673	3484	2735	0007535	0098	14798								
119		OBS	0133	0673	34857	2736			14800								
		STD	0150	0640	3489	2743	0006776	0116	14790								
119		OBS	T0173	0599	34931	2752			14778								
		STD	0200	0586	3493	2754	0005843	0148	14777								
		STD	0250	0562	3494	2757	0005592	0176	14776								
		STD	0300	0540	3494	2760	0005366	0204	14775								
		STD	0400	0500	3495	2765	0004963	0255	14775								
119		OBS	0450	0482	34948	2768			14776								
		STD	0500	0465	3495	2769	0004655	0304	14777								
		STD	0600	0437	3494	2772	0004464	0349	14782								
		STD	0700	0414	3494	2774	0004325	0393	14789								
		STD	0800	0396	3494	2776	0004233	0436	14798								
119		OBS	T0890	0385	34931	2777			14809								

TABLE IX.—Observed and interpolated oceanographic data from stations taken by USCGC SPENCER, at Ocean Station CHARLIE, 28 February—14 March 1968, prepared from NODC Listing No. 31–1253.

COUNTRY CODE	CRUISE NUMBER	SHIP CODE	LATITUDE	LONGITUDE	MARSDEN SQUARE	MONTH	DAY	HOUR	YEAR	CRUISE NUMBER	STATION NUMBER	DEPTH TO BOTTOM	BAR. SAMPLE	WAVE OBS. DIR	WAVE OBS. HGT.	WAVE OBS. PER	WAVE OBS. SEA ART	WEATHER CODE	*WIND CLOUD TYPE	*WIND CLOUD AMT	NODC STATION NUMBER
31	1253	SC	5235 N	03505 W	184	02	28	1628	1968	C19	001	3109	1	29	2	2		X1	8	6	0001

WATER COLOR	TRANSP. (m.)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mb.)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NUMBER OBS. LEVELS	SPECIAL OBSERVATIONS
		33	S10	125	033	028	7	14	

CAST NO.	CARD TYPE	DEPTH m	T°C	S‰	SIGMA-T	SPECIFIC VOLUME ANOMALY	2nd DYN. M.	COMPUTED SOUND VELOCITY m/sec	O_2 ml/l	*AMBIENT LIGHT PO4-P	*AMBIENT LIGHT TOTAL-P	*AMBIENT LIGHT NO3-N	*AMBIENT LIGHT NO2-N	*MEASURED SOUND VELOCITY	*MEASURED SOUND VELOCITY pH
	STD	0000	0647												
162	OBS	0000	0647												
162	OBS	0007	0654												
	STD	0010	0654												
	STD	0020	0655												
162	OBS	0020	0655												
	STD	0030	0655												
162	OBS	0032	0655												
162	OBS	0048	0657												
	STD	0050	0657												
162	OBS	0065	0656												
	STD	0075	0655												
162	OBS	0097	0654												
	STD	0100	0654												
	STD	0125	0655												
162	OBS	T0146	0656												
	STD	0150	0656												
	STD	0200	0656												
	STD	0250	0657												
162	OBS	T0271	0657												
	STD	0300	0632												
162	OBS	0341	0599												
	STD	0400	0553												
162	OBS	T0419	0540												
	STD	0500	0503												
162	OBS	0554	0481												
	STD	0600	0466												
	STD	0700	0437												
162	OBS	T0702	0436												
	STD	0800	0412												
	STD	0900	0392												
	STD	1000	0376												
162	OBS	T1074	0368												

COUNTRY CODE	CRUISE NUMBER	SHIP CODE	LATITUDE	LONGITUDE	MARSDEN SQUARE	MONTH	DAY	HOUR	YEAR	CRUISE NUMBER	STATION NUMBER	DEPTH TO BOTTOM	BAR. SAMPLE	WAVE OBS. DIR	WAVE OBS. HGT.	WAVE OBS. PER	WAVE OBS. SEA ART	WEATHER CODE	*WIND CLOUD TYPE	*WIND CLOUD AMT	NODC STATION NUMBER
31	1253	SC	5243 N	03534 W	184	02	29	1007	1969	C19	002	3109	1	20	1	2		X1	9	6	0002

WATER COLOR	TRANSP. (m.)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mb.)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NUMBER OBS. LEVELS	SPECIAL OBSERVATIONS
		22	S08	180	050	033	7	14	

CAST NO.	CARD TYPE	DEPTH m	T°C	S‰	SIGMA-T	SPECIFIC VOLUME ANOMALY	2nd DYN. M.	COMPUTED SOUND VELOCITY m/sec	O_2 ml/l	*AMBIENT LIGHT PO4-P	*AMBIENT LIGHT TOTAL-P	*AMBIENT LIGHT NO3-N	*AMBIENT LIGHT NO2-N	*MEASURED SOUND VELOCITY	*MEASURED SOUND VELOCITY pH
	STD	0000	0653												
107	OBS	0000	0653												
107	OBS	0009	0652												
	STD	0010	0652												
	STD	0020	0654												
107	OBS	0027	0654												
	STD	0030	0654												
107	OBS	0041	0653												
	STD	0050	0655												
107	OBS	0059	0656												
	STD	0075	0654												
107	OBS	0079	0654												
	STD	0100	0656												
107	OBS	0117	0657												
	STD	0125	0657												
	STD	0150	0659												
107	OBS	T0160	0659												
	STD	0200	0648												
	STD	0250	0631												
	STD	0300	0608												
107	OBS	T0310	0603												
107	OBS	0393	0553												
	STD	0400	0547												
107	OBS	0477	0496												
	STD	0500	0498												
	STD	0600	0457												
107	OBS	0654	0443												
	STD	0700	0432												
	STD	0800	0412												
107	OBS	T0842	0405												
107	OBS	13040	0361												

TABLE IX.—Continued

COUNTRY CODE	CRUISE NUMBER	SHIP CODE	LATITUDE	LONGITUDE	DRIFT INDICATOR	MARSDEN SQUARE	STATION TIME (G.M.T.) DAY	STATION TIME (G.M.T.) HR. & MIN.	YEAR	ORIGINATOR'S CRUISE NUMBER	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	GAS SAMPLE	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER.	WAVE OBSERVATIONS SEA AMT.	WEATHER CODE	*WSTB CLOUD TYPE	*WSTB CLOUD AMT.	NODC STATION NUMBER
31	1253	SC	52400N	035160W		184	25	03 01	146	1968	C19	003	3521	1	24	2	5		X1	8	7	0003

* NOTE: WHEN USING PUNCH CARD FORMATS FOR PLACING ELECTRONICALLY OBSERVED SIGNAL DATA INTO THE # AGENCY MARKED BY ASTERISK, WHERE THEY APPEAR.

*DT WATER COLOR	*S_0 TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER mb	AIR TEMPERATURE °C DRY BULB	AIR TEMPERATURE °C WET BULB	VIS. CODE	NUMBER OBS. LEVELS	SPECIAL OBSERVATIONS
		25	505	220	050	039	7	14	

CAST NO.	CARD TYPE	DEPTH (m)	T°C	S‰	SIGMA-T	SPECIFIC VOLUME ANOMALY - 10⁸	3AD DYN. HT. 10⁵	COMPUTED SOUND VELOCITY m/sec	O_2 ml/l	*AMB ENT LIGHT PO₄ P µg-at/l	*AMB ENT LIGHT TOTAL P µg-at/l	*AMB ENT LIGHT NO_3 N µg-at/l	*AMB ENT LIGHT NO_2 N µg-at/l	*AMB ENT LIGHT SiO_3 Si µg-at/l	*MEASURED SOUND VELOCITY m/sec	pH
	STD	0000	0640													
146	OBS	0000	0640													
146	OBS	0009	0640													
	STD	0010	0641													
	STD	0020	0649													
146	OBS	0029	0654													
	STD	0030	0654													
146	OBS	0045	0655													
	STD	0050	0657													
146	OBS	0067	0660													
	STD	0075	0657													
146	OBS	0088	0654													
	STD	0100	0653													
	STD	0125	0652													
146	OBS	0133	0652													
	STD	0150	0656													
146	OBS	T0181	0659													
	STD	0200	0651													
	STD	0250	0629													
	STD	0300	0607													
146	OBS	T0359	0578													
	STD	0400	0559													
146	OBS	0455	0528													
	STD	0500	0491													
146	OBS	T0555	0457													
	STD	0600	0450													
	STD	0700	0433													
146	OBS	0747	0425													
	STD	0800	0414													
	STD	0900	0395													
146	OBS	T0945	0388													
	STD	1000	0384													
	STD	1100	0377													
	STD	1200	0371													
	STD	1300	0364													
	STD	1400	0357													
146	OBS	T1431	0355													

COUNTRY CODE	CRUISE NUMBER	SHIP CODE	LATITUDE	LONGITUDE	DRIFT INDICATOR	MARSDEN SQUARE	STATION TIME (G.M.T.) DAY	STATION TIME (G.M.T.) HR. & MIN.	YEAR	ORIGINATOR'S CRUISE NUMBER	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	GAS SAMPLE	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER.	WAVE OBSERVATIONS SEA AMT.	WEATHER CODE	*WSTB CLOUD TYPE	*WSTB CLOUD AMT.	NODC STATION NUMBER
31	1253	SC	52370N	035260W		194	25	03 04	101	1968	C19	004	3521	1	15	5	4		X3	0		0004

* NOTE: WHEN USING PUNCH CARD FORMATS FOR PLACING ELECTRONICALLY OBSERVED SIGNAL DATA INTO THE # AGENCY MARKED BY ASTERISK, WHERE THEY APPEAR.

*DT WATER COLOR	*S_0 TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER mb	AIR TEMPERATURE °C DRY BULB	AIR TEMPERATURE °C WET BULB	VIS. CODE	NUMBER OBS. LEVELS	SPECIAL OBSERVATIONS
		15	508	220	094	099	7	14	

CAST NO.	CARD TYPE	DEPTH (m)	T°C	S‰	SIGMA-T	SPECIFIC VOLUME ANOMALY - 10⁸	3AD DYN. HT. 10⁵	COMPUTED SOUND VELOCITY m/sec	O_2 ml/l	*AMB ENT LIGHT PO₄ P µg-at/l	*AMB ENT LIGHT TOTAL P µg-at/l	*AMB ENT LIGHT NO_3 N µg-at/l	*AMB ENT LIGHT NO_2 N µg-at/l	*AMB ENT LIGHT SiO_3 Si µg-at/l	*MEASURED SOUND VELOCITY m/sec	pH
	STD	0000	0798													
101	OBS	00000	0798													
101	OBS	00090	0723													
	STD	0010	0723													
	STD	0020	0722													
	STD	0030	0720													
101	OBS	00310	0720													
	STD	0050	0717													
101	OBS	00500	0717													
	STD	0075	0694													
101	OBS	00750	0694													
	STD	0100	0673													
101	OBS	01000	0673													
	STD	0125	0659													
101	OBS	01450	0655													
	STD	0150	0658													
101	OBS	T0191	0674													
	STD	0200	0666													
	STD	0250	0624													
	STD	0300	0589													
101	OBS	03640	0554													
	STD	0400	0542													
101	OBS	04510	0523													
	STD	0500	0502													
101	OBS	T0539	0487													
	STD	0600	0462													
	STD	0700	0430													
101	OBS	07210	0425													
	STD	0800	0413													
	STD	0900	0399													
101	OBS	T0916	0397													
	STD	1000	0387													
	STD	1100	0378													
	STD	1200	0370													
	STD	1300	0364													
	STD	1400	0360													
101	OBS	T1412	0360													

Table IX.—Continued

COUNTRY CODE	CRUISE NUMBER	SHIP CODE	LATITUDE	LONGITUDE	MARSDEN SQUARE	STATION TIME (G.M.T.) MONTH	DAY	HR.	YEAR	OBSERVATION'S CRUISE NUMBER	OBSERVATION'S STATION NUMBER	DEPTH TO BOTTOM	BAR. SAMPLE	SEA OBSERVATIONS DIR.	SEA OBSERVATIONS WET	SEA OBSERVATIONS SEA ART.	WEATHER CODE	METR. CLOUD TYPE	METR. CLOUD AMT		NODC STATION NUMBER
31	1253	SC	5247 N	03532 W	184	25	03	07	093	1969	C19	005	3621	1	13	3	3	X2	5	8	0005

°DT RATER COLOR	°S_D TRANS. (m.)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER mb	AIR TEMPERATURE °C DRY BULB	AIR TEMPERATURE °C WET BULB	VIS. CODE	NUMBER OBS. LEVELS	SPECIAL OBSERVATIONS
		13	S12	240	094	089	7	14	

CAST NO.	CARD TYPE	DEPTH m	T°C.	S°...	SIGMA-T	SPECIFIC VOLUME (ANOMALY - 1 10^5)	DYN. DEPTH	COMPUTED SOUND VELOCITY	O_2 ml/l	* AMBIENT LIGHT	* MEASURED SOUND VELOCITY
	STD	0000	0666								
093	OBS	0000	0666								
	STD	0010	0661								
093	OBS	0010	0661								
	STD	0020	0661								
	STD	0030	0661								
093	OBS	0033	0661								
	STD	0050	0660								
093	OBS	0052	0660								
	STD	0075	0660								
093	OBS	0078	0660								
	STD	0100	0651								
093	OBS	0103	0650								
	STD	0125	0651								
	STD	0150	0654								
093	OBS	0154	0654								
	STD	0200	0659								
093	OBS	0206	0660								
	STD	0250	0623								
	STD	0300	0585								
	STD	0400	0525								
093	OBS	0412	0519								
	STD	0500	0485								
093	OBS	0515	0480								
	STD	0600	0459								
093	OBS	T0620	0454								
	STD	0700	0432								
	STD	0800	0409								
093	OBS	0832	0403								
	STD	0900	0392								
	STD	1000	0379								
093	OBS	T1056	0372								
	STD	1100	0370								
	STD	1200	0365								
	STD	1300	0360								
	STD	1400	0356								
	STD	1500	0351								
093	OBS	T1581	0347								

COUNTRY CODE	CRUISE NUMBER	SHIP CODE	LATITUDE	LONGITUDE	MARSDEN SQUARE	STATION TIME (G.M.T.) MONTH	DAY	HR.	YEAR	OBSERVATION'S CRUISE NUMBER	OBSERVATION'S STATION NUMBER	DEPTH TO BOTTOM	BAR. SAMPLE	SEA OBSERVATIONS DIR.	SEA OBSERVATIONS WET	SEA OBSERVATIONS SEA ART.	WEATHER CODE	METR. CLOUD TYPE	METR. CLOUD AMT		NODC STATION NUMBER
31	1253	SC	5240 N	03520 W	184	25	03	11	169	1968	C19	006	3621	1	25	4	4	X1	5	7	0006

°DT RATER COLOR	°S_D TRANS. (m.)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER mb	AIR TEMPERATURE °C DRY BULB	AIR TEMPERATURE °C WET BULB	VIS. CODE	NUMBER OBS. LEVELS	SPECIAL OBSERVATIONS
		29	S29	146	056	050	7	14	

CAST NO.	CARD TYPE	DEPTH m	T°C.	S°...	SIGMA-T	SPECIFIC VOLUME (ANOMALY - 1 10^5)	DYN. DEPTH	COMPUTED SOUND VELOCITY	O_2 ml/l	* AMBIENT LIGHT	* MEASURED SOUND VELOCITY
	STD	0000	0705								
169	OBS	0000	0705								
169	OBS	0009	0698								
	STD	0010	0698								
	STD	0020	0696								
169	OBS	0028	0696								
	STD	0030	0696								
169	OBS	0046	0697								
	STD	0050	0689								
169	OBS	0069	0666								
	STD	0075	0667								
169	OBS	0092	0667								
	STD	0100	0665								
	STD	0125	0660								
169	OBS	0137	0658								
	STD	0150	0658								
169	OBS	0183	0657								
	STD	0200	0647								
	STD	0250	0616								
	STD	0300	0585								
169	OBS	T0365	0543								
	STD	0400	0514								
169	OBS	0456	0492								
	STD	0500	0475								
169	OBS	0547	0466								
	STD	0600	0447								
	STD	0700	0416								
169	OBS	0732	0407								
	STD	0800	0392								
	STD	0900	0373								
169	OBS	T0918	0370								
	STD	1000	0367								
	STD	1100	0363								
	STD	1200	0359								
	STD	1300	0355								
169	OBS	T1391	0352								

TABLE IX.—Continued

COUNTRY CODE	CRUISE NUMBER	SHIP CODE	LATITUDE	LONGITUDE	MARSDEN SQUARE	STATION TIME (G.M.T.) DEPTH	HR	MIN. 1/10	YEAR	ORIGINATOR'S CRUISE NUMBER	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	BAL SAMPLE D B P	WAVE OBSERVATIONS DIR	HGT	PER	SEA AMT	WEATHER CODE	*INSTR CLOUD TYPE	CLOUD AMT		NODC STATION NUMBER
31	1253	SC	5242 N	03523 W	184	25	03	12	1968	C19	007	3621	1	22	2	2		X1	6	1		0007

* NOTE: WHEN USING TEMPLATE FOR READING ELECTRONICALLY OBSERVED SIGNAL DATA STD AND READINGS MARKED BY ASTERISKS, ONE OR TWO SPACES

*DT WATER COLOR	*S_{0}^{t} TRANS. (m.)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER mb.	AIR TEMPERATURE °C DRY BULB	AIR TEMPERATURE °C WET BULB	VIS. CODE	NUMBER OBS. LEVELS	SPECIAL OBSERVATIONS
		20	S10	203	078	056	7	13	

CAST NO.	TIME DURATION HR.	CARD TYPE	DEPTH in m.	T °C	S °/oo	SIGMA-t	SPECIFIC VOLUME ANOMALY	DYN. DEPTH	COMPUTED SOUND VELOCITY m/sec	O_2 ml/l	*AMBIENT LIGHT PO4-P	TOTAL-P	NO3-N	NO2-N	*MEASURED SOUND VELOCITY m/sec	pH
		STD	0000	0689												
183		OBS	0000	0689												
183		OBS	0008	0685												
		STD	0010	0685												
		STD	0020	0686												
183		OBS	0025	0687												
		STD	0030	0685												
183		OBS	0042	0679												
		STD	0050	0673												
183		OBS	0063	0665												
		STD	0075	0658												
183		OBS	0085	0654												
		STD	0100	0657												
		STD	0125	0659												
183		OBS	0129	0659												
		STD	0150	0656												
		STD	0200	0644												
		STD	0250	0624												
		STD	0300	0597												
183		OBS	T0345	0566												
		STD	0400	0509												
183		OBS	0436	0495												
		STD	0500	0476												
183		OBS	T0530	0471												
		STD	0600	0452												
		STD	0700	0426												
183		OBS	0712	0423												
		STD	0800	0402												
183		OBS	0898	0383												
		STD	0900	0393												
		STD	1000	0377												
		STD	1100	0371												
		STD	1200	0366												
		STD	1300	0360												
183		OBS	T1350	0357												

COUNTRY CODE	CRUISE NUMBER	SHIP CODE	LATITUDE	LONGITUDE	MARSDEN SQUARE	STATION TIME (G.M.T.) DEPTH	HR	MIN. 1/10	YEAR	ORIGINATOR'S CRUISE NUMBER	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	BAL SAMPLE D B P	WAVE OBSERVATIONS DIR	HGT	PER	SEA AMT	WEATHER CODE	*INSTR CLOUD TYPE	CLOUD AMT		NODC STATION NUMBER
31	1253	SC	5243 N	03516 W	184	25	03	14	1968	C19	008	3521	1	26	2	2		X1	8	7		0008

* NOTE: WHEN USING TEMPLATE FOR READING ELECTRONICALLY OBSERVED SIGNAL DATA STD AND READINGS MARKED BY ASTERISKS, ONE OR TWO SPACES

*DT WATER COLOR	*S_{0}^{t} TRANS. (m.)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER mb.	AIR TEMPERATURE °C DRY BULB	AIR TEMPERATURE °C WET BULB	VIS. CODE	NUMBER OBS. LEVELS	SPECIAL OBSERVATIONS
		23	S08	234	072	061	7	14	

CAST NO.	TIME DURATION HR.	CARD TYPE	DEPTH in m.	T °C	S °/oo	SIGMA-t	SPECIFIC VOLUME ANOMALY	DYN. DEPTH	COMPUTED SOUND VELOCITY m/sec	O_2 ml/l	*AMBIENT LIGHT PO4-P	TOTAL-P	NO3-N	NO2-N	*MEASURED SOUND VELOCITY m/sec	pH
		STD	0000	0627												
115		OBS	0000	0627												
115		OBS	0007	0654												
		STD	0010	0655												
		STD	0020	0656												
115		OBS	0021	0656												
		STD	0030	0656												
115		OBS	0035	0656												
		STD	0050	0658												
115		OBS	0052	0658												
115		OBS	0069	0655												
		STD	0075	0654												
		STD	0100	0650												
115		OBS	0102	0650												
		STD	0125	0629												
115		OBS	T0132	0622												
		STD	0150	0622												
		STD	0200	0623												
		STD	0250	0624												
115		OBS	T0258	0624												
		STD	0300	0624												
115		OBS	0322	0612												
115		OBS	0381	0540												
		STD	0400	0525												
115		OBS	0493	0467												
		STD	0500	0465												
		STD	0600	0440												
115		OBS	T0621	0435												
		STD	0700	0418												
		STD	0800	0399												
		STD	0900	0383												
		STD	1000	0371												
115		OBS	T1050	0366												

TABLE X.—Observed and interpolated oceanographic data from stations taken by USCGC HAMILTON, at Ocean Station CHARLIE, 10 April—1 May 1968, prepared from NODC Listing No. 31–8043.

REFERENCE: CARD CODE	REFERENCE: NO. NO	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDEX	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT		NODC STATION NUMBER
31	8043	HT	5244 N	03533 W		18	4	25	04	10	1968	C20	001	3658	15	19			3	X6	0	3		0001

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	15	S30	909	072	072	6	23	

MESSENGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S °/₀₀	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	Σ△D DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	ICC
		STD	0000	0649	3482	2736	0007224	0000	14768								
119		OBS	0000	0649	34815	2736			14768								
		STD	0010	0649	3482	2736	0007239	0007	14770								
		OBS	0010	0649	34815	2736			14770								
		STD	0020	0647	3481	2737	0007236	0014	14770								
007		OBS	0020	0647	34814	2737			14770								
		STD	0030	0647	3481	2737	0007251	0022	14772								
		OBS	0030	0647	34814	2737			14772								
		STD	0050	0647	3482	2737	0007259	0036	14775								
		OBS	0050	0647	34817	2737			14775								
		STD	0075	0642	3483	2738	0007136	0054	14778								
		STD	0100	0639	3484	2740	0007038	0072	14781								
		OBS	0100	0639	34843	2740			14781								
		STD	0125	0639	3486	2741	0006956	0089	14785								
		OBS	0125	0639	34859	2741			14785								
		STD	0150	0635	3487	2742	0006868	0107	14788								
		OBS	0150	0635	34869	2742			14788								
		STD	0200	0634	3492	2747	0006535	0140	14796								
		OBS	0200	0634	34922	2747			14796								
		STD	0250	0601	3494	2752	0006050	0172	14792								
		OBS	0250	0601	34940	2752			14792								
		STD	0300	0558	3493	2757	0005646	0201	14782								
		OBS	0300	0558	34931	2757			14782								
		STD	0400	0503	3492	2763	0005170	0255	14776								
		OBS	0400	0503	34922	2763			14776								
		STD	0500	0469	3493	2768	0004814	0305	14779								
		OBS	0500	0469	34931	2768			14779								
		STD	0600	0450	3494	2771	0004639	0352	14788								
		OBS	0600	0450	34939	2771			14788								
		STD	0700	0428	3493	2772	0004527	0398	14795								
		OBS	0700	0428	34933	2772			14795								
		STD	0800	0409	3493	2774	0004401	0443	14804								
		OBS	0800	0409	34933	2774			14804								
		STD	0900	0397	3493	2776	0004360	0486	14815								
		OBS	0900	0397	34932	2776			14815								
		STD	1000	0383	3493	2777	0004284	0530	14826								
		OBS	1000	0383	34932	2777			14826								
		STD	1100	0376	3493	2778	0004288	0573	14840								
		OBS	1100	0376	34932	2778			14840								
		STD	1200	0369	3493	2779	0004281	0615	14854								
		OBS	1200	0369	34933	2779			14854								
		STD	1300	0362	3493	2779	0004278	0658	14868								
		OBS	1300	0362	34933	2779			14868								
		STD	1400	0360	3494	2780	0004277	0701	14884								
		OBS	1400	0360	34941	2780			14884								
		STD	1500	0357	3495	2781	0004255	0744	14899								
		OBS	1500	0357	34950	2781			14899								

Table X.—Continued

REFERENCE: Ctry Code	REFERENCE: ID No	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DUPLICATE	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT		NODC STATION NUMBER
318043	HT	5245 N	03530 W		184	25	04	10	156	1968	C20	002		3585	15	18			3	X2	0	3		0002

WATER: COLOR CODE	WATER: TRANS (m)	WIND: DIR	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP °C: DRY BULB	AIR TEMP °C: WET BULB	VIS CODE	NO OBS DEPTHS	SPECIAL OBSERVATIONS
DT	SD	18	S26	905	088	078	6	30	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10⁸	Σ Δ D DYN M ×10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₃-N µg-at/l	NO₂-N µg-at/l	SiO₄-Si µg-at/l	pH	QQQQ
		STD	0000	0759	34730	2714	0009337	0000	14810								
156		OBS	0000	0759	34727	2714			14810								
		STD	0010	0759	34730	2714	0009369	0009	14812								
		OBS	0010	0759	34725	2714			14812								
		STD	0020	0759	34730	2714	0009386	0019	14813								
008		OBS	0020	0759	34725	2714			14813								
		STD	0030	0759	34730	2714	0009403	0028	14815								
		OBS	0030	0759	34725	2714			14815								
		STD	0050	0701	34730	2723	0008596	0046	14796								
		OBS	0050	0701	34732	2723			14796								
		OBS	0060	0628	34752	2734			14769								
		STD	0075	0624	34790	2738	0007192	0066	14770								
		OBS	0075	0624	34792	2738			14770								
		STD	0100	0608	34810	2741	0006879	0083	14768								
		OBS	0100	0608	34812	2741			14768								
		STD	0125	0618	34830	2742	0006891	0101	14776								
		OBS	0125	0618	34832	2742			14776								
		STD	0150	0623	34850	2743	0006841	0118	14783								
		OBS	0150	0623	34852	2743			14783								
		OBS	0160	0623	34852	2743			14784								
		STD	0200	0618	34950	2751	0006105	0150	14790								
		OBS	0200	0618	34952	2751			14790								
		OBS	0220	0618	34952	2751			14794								
		STD	0250	0577	34950	2757	0005659	0180	14782								
		OBS	0250	0577	34952	2757			14782								
		OBS	0275	0563	34946	2758			14780								
		OBS	0285	0533	34912	2759			14769								
		OBS	0295	0533	34912	2759			14771								
		STD	0300	0542	34930	2759	0005480	0207	14776								
		OBS	0300	0542	34927	2759			14776								
		STD	0400	0504	34910	2762	0005249	0261	14777								
		OBS	0406	0502	34912	2762			14777								
		STD	0500	0476	34910	2765	0005038	0313	14782								
		OBS	0500	0476	34912	2765			14782								
		STD	0600	0445	34930	2770	0004669	0361	14785								
		OBS	0600	0445	34927	2770			14785								
		STD	0700	0426	34920	2772	0004585	0407	14794								
		OBS	0700	0426	34922	2772			14794								
		STD	0800	0412	34910	2773	0004592	0453	14805								
		OBS	0800	0412	34912	2773			14805								
		STD	0900	0394	34890	2773	0004635	0499	14814								
		OBS	0900	0394	34890	2773			14814								
		STD	1000	0381	34890	2774	0004592	0545	14825								
		OBS	1000	0381	34887	2774			14825								
		STD	1100	0374	34890	2774	0004595	0591	14839								
		OBS	1100	0374	34887	2774			14839								
		STD	1200	0370	34900	2776	0004521	0637	14854								
		OBS	1200	0370	34902	2776			14854								
		STD	1300	0365	34920	2778	0004397	0682	14869								
		OBS	1300	0365	34922	2778			14869								
		STD	1400	0361	34930	2779	0004356	0725	14884								
		OBS	1400	0361	34932	2779			14884								
		STD	1500	0355	34930	2780	0004376	0769	14898								
		OBS	1500	0355	34930	2780			14898								

Table X.—Continued

REFERENCE		SHIP CODE	LATITUDE	LONGITUDE	DEEP STATION	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES			NODC STATION NUMBER
CTRY CODE	ID. NO.		1/10	1/10		10°	1°	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYP	AMT		
318043	HT	5246 N	03528 W		184	25	04	10	234	1968	C20	003		3566	15	17			3	X2	0	3		0003

WATER		WIND			BAROMETER (mbs)	AIR TEMP. °C		VEL. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB			
DT	SD	20	S18		898	061	056	6	29	

MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma \Delta D$ DTH, M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	
		STD	0000	0646	3481	2736	0007223	0000	14767								
234		OBS	0000	0646	34810	2736			14767								
		STD	0010	0646	3481	2736	0007238	0007	14768								
		OBS	0010	0646	34810	2736			14768								
		STD	0020	0646	3481	2736	0007253	0014	14770								
006		OBS	0020	0646	34810	2736			14770								
		STD	0030	0646	3482	2737	0007231	0022	14772								
		OBS	0030	0646	34815	2737			14772								
		STD	0050	0646	3482	2737	0007261	0036	14775								
		OBS	0050	0646	34815	2737			14775								
		STD	0075	0645	3482	2737	0007256	0054	14779								
		OBS	0075	0645	34819	2737			14779								
		STD	0100	0643	3482	2738	0007261	0073	14782								
		OBS	0100	0643	34820	2738			14782								
		STD	0125	0637	3483	2739	0007147	0091	14784								
		OBS	0125	0637	34830	2739			14784								
		STD	0150	0633	3486	2742	0006909	0108	14787								
		OBS	0150	0633	34860	2742			14787								
		STD	0200	0634	3491	2746	0006601	0142	14796								
		OBS	0200	0634	34913	2746			14796								
		OBS	0225	0618	34920	2749			14794								
		STD	0250	0605	3492	2750	0006249	0174	14793								
		OBS	0250	0605	34920	2750			14793								
		OBS	0270	0583	34920	2753			14787								
		OBS	0290	0565	34920	2755			14783								
		STD	0300	0568	3492	2755	0005852	0204	14786								
		OBS	0300	0568	34920	2755			14786								
		OBS	0310	0553	34930	2758			14782								
		OBS	0350	0518	34958	2764			14775								
		STD	0400	0487	3497	2769	0004623	0257	14770								
		OBS	0400	0487	34970	2769			14770								
		STD	0500	0462	3496	2771	0004508	0302	14776								
		OBS	0500	0462	34961	2771			14776								
		STD	0600	0440	3496	2774	0004343	0347	14784								
		OBS	0600	0440	34963	2774			14784								
		STD	0700	0417	3496	2776	0004197	0389	14791								
		OBS	0700	0417	34960	2776			14791								
		STD	0800	0398	3496	2778	0004086	0431	14800								
		OBS	0800	0398	34958	2778			14800								
		STD	0900	0381	3495	2778	0004075	0471	14809								
		OBS	0900	0381	34945	2778			14809								
		STD	1000	0374	3495	2779	0004066	0512	14823								
		OBS	1000	0374	34947	2779			14823								
		STD	1100	0366	3495	2780	0004056	0553	14836								
		OBS	1100	0366	34947	2780			14836								
		STD	1200	0360	3496	2782	0003987	0593	14850								
		OBS	1200	0360	34958	2782			14850								
		STD	1300	0356	3496	2782	0003998	0633	14865								
		OBS	1300	0356	34961	2782			14865								
		STD	1400	0349	3496	2783	0003978	0673	14879								
		OBS	1400	0349	34963	2783			14879								
		STD	1500	0346	3496	2783	0004041	0713	14895								
		OBS	1500	0346	34960	2783			14895								

Table X.—Continued

REFERENCE: Ctry Code	REFERENCE: ID. No.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DATE & TIME	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX DEPTH OF SMP.'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT.	WAVE OBSERVATIONS: PER.	WAVE OBSERVATIONS: STA.	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT.		NODC STATION NUMBER
318043	HT	5245 N	03535 W		184	25	04	11	115	1968	C20	004		3475	15	25			2	X1	0	3		0004

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP °C: DRY BULB	AIR TEMP °C: WET BULB	W.S. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	22	S21	983	056	050	7	27	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\frac{1}{2}\Delta D$ DYN M x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg at/l	NO_3-N µg-at/l	NO_2-N µg at l	SiO_4-Si µg-at/l	pH	SEC
		STD	0000	0643	3483	2738	0007043	0000	14766								
	115	OBS	0000	0643	34829	2738			14766								
		STD	0010	0643	3483	2738	0007059	0007	14767								
		OBS	0010	0643	34829	2738			14767								
		STD	0020	0642	3483	2738	0007068	0014	14769								
	006	OBS	0020	0642	34828	2738			14769								
		STD	0030	0642	3483	2738	0007083	0021	14770								
		OBS	0030	0642	34828	2738			14770								
		STD	0050	0642	3483	2738	0007113	0035	14774								
		OBS	0050	0642	34828	2738			14774								
		STD	0075	0641	3484	2739	0007056	0053	14777								
		OBS	0075	0641	34839	2739			14777								
		STD	0100	0640	3484	2740	0007073	0071	14781								
		OBS	0100	0640	34840	2740			14781								
		STD	0125	0631	3489	2745	0006616	0088	14782								
		OBS	0125	0631	34891	2745			14782								
		STD	0150	0630	3493	2748	0006320	0104	14787								
		OBS	0150	0630	34934	2748			14787								
		OBS	0175	0629	34961	2751			14791								
		STD	0200	0615	3497	2753	0005933	0135	14789								
		OBS	0200	0615	34970	2753			14789								
		STD	0250	0594	3497	2756	0005716	0164	14789								
		OBS	0250	0594	34973	2756			14789								
		OBS	0275	0576	34975	2758			14786								
		STD	0300	0557	3496	2760	0005418	0192	14782								
		OBS	0300	0557	34960	2760			14782								
		OBS	0350	0527	34957	2763			14778								
		STD	0400	0492	3493	2765	0004957	0244	14772								
		OBS	0400	0492	34933	2765			14772								
		STD	0500	0459	3495	2771	0004540	0291	14775								
		OBS	0500	0459	34952	2771			14775								
		STD	0600	0442	3497	2773	0004351	0335	14785								
		OBS	0600	0442	34965	2773			14785								
		STD	0700	0416	3496	2776	0004208	0378	14790								
		OBS	0700	0416	34957	2776			14790								
		STD	0800	0398	3495	2777	0004116	0420	14799								
		OBS	0800	0398	34954	2777			14799								
		STD	0900	0386	3495	2778	0004097	0461	14811								
		OBS	0900	0386	34950	2778			14811								
		STD	1000	0373	3495	2780	0004039	0502	14822								
		OBS	1000	0373	34949	2780			14822								
		STD	1100	0363	3495	2781	0004006	0542	14835								
		OBS	1100	0363	34949	2781			14835								
		STD	1200	0358	3495	2781	0003992	0582	14849								
		OBS	1200	0358	34954	2781			14849								
		STD	1300	0353	3496	2782	0003961	0622	14864								
		OBS	1300	0353	34961	2782			14864								
		STD	1400	0348	3497	2784	0003899	0661	14879								
		OBS	1400	0348	34972	2784			14879								
		STD	1500	0344	3498	2784	0003906	0700	14894								
		OBS	1500	0344	34975	2784			14894								

TABLE X.—Continued

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT IN FRACT	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR 1/10	YEAR	ORIGINATOR'S CRUISE NO	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER.	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	043	HT	5246 N	03515 W	D	184	25	04	11	174	1968	C20	005	3182	15	26			5	X1	0	3		0005

WATER COLOR CODE	WATER TRANSP. mi	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbar)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	26	S20	983	066	056	7	25	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta D$ DYN. M x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_4-Si µg-at/l	pH	SCC
		STD	0000	0646	3482	2737	0007156	0000	14767								
	174	OBS	0000	0646	34819	2737			14767								
		STD	0010	0646	3482	2737	0007171	0007	14768								
		OBS	0010	0646	34819	2737			14768								
		STD	0020	0646	3482	2737	0007186	0014	14770								
	004	OBS	0020	0646	34819	2737			14770								
		STD	0030	0646	3482	2737	0007201	0022	14772								
		OBS	0030	0646	34819	2737			14772								
		STD	0050	0645	3482	2737	0007219	0036	14775								
		OBS	0050	0645	34819	2737			14775								
		STD	0075	0644	3481	2737	0007296	0054	14778								
		OBS	0075	0644	34812	2737			14778								
		STD	0100	0637	3484	2740	0007035	0072	14780								
		OBS	0100	0637	34840	2740			14780								
		STD	0125	0632	3488	2744	0006695	0089	14783								
		OBS	0125	0632	34882	2744			14783								
		STD	0150	0628	3491	2747	0006473	0106	14786								
		OBS	0150	0628	34910	2747			14786								
		STD	0200	0614	3493	2750	0006233	0137	14788								
		OBS	0200	0614	34928	2750			14788								
		STD	0250	0599	3496	2754	0005868	0168	14791								
		OBS	0250	0599	34961	2754			14791								
		STD	0300	0569	3495	2758	0005612	0196	14787								
		OBS	0300	0569	34954	2758			14787								
		OBS	0350	0530	34933	2761			14779								
		STD	0400	0503	3492	2763	0005170	0250	14776								
		OBS	0400	0503	34922	2763			14776								
		STD	0500	0463	3494	2769	0004714	0300	14776								
		OBS	0500	0463	34935	2769			14776								
		STD	0600	0441	3494	2772	0004533	0346	14784								
		OBS	0600	0441	34939	2772			14784								
		STD	0700	0420	3494	2774	0004403	0391	14792								
		OBS	0700	0420	34937	2774			14792								
		STD	0800	0400	3493	2775	0004325	0434	14800								
		OBS	0800	0400	34929	2775			14800								
		STD	0900	0385	3492	2776	0004299	0477	14810								
		OBS	0900	0385	34921	2776			1481(								
		STD	1000	0374	3492	2777	0004258	0520	1482:								
		OBS	1000	0374	34921	2777			1482:								
		STD	1100	0367	3492	2778	0004253	0563	1483(								
		OBS	1100	0367	34922	2778			14836								
		STD	1200	0362	3492	2779	0004262	0605	14851								
		OBS	1200	0362	34924	2779			14851								
		STD	1300	0358	3493	2780	0004251	0648	14866								
		OBS	1300	0358	34930	2780			14866								
		STD	1400	0355	3494	2781	0004222	0690	14882								
		OBS	1400	0355	34940	2781			14882								
		STD	1500	0350	3495	2782	0004158	0732	14896								
		OBS	1500	0350	34951	2782			14896								

TABLE X.—Continued

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DATA RECORD TYPE	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT.	WAVE OBSERVATIONS: PER.	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT.		NODC STATION NUMBER
318	043	HT	5248 N	03536 W		184	25	04	11	233	1968	C20	006	3566	15	29			2	X1	0	3		0006

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP °C: DRY BULB	AIR TEMP °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	32	S10	328	044	033	7	26	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY—10^5	$\Sigma\Delta D$ DYN. M. x 10^5	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_2-Si µg-at/l	pH	I C C
		STD	0000	0647	3484	2739	0007019	0000	14768								
233		OBS	0000	0647	34839	2739			14768								
		STD	0010	0647	3484	2739	0007035	0007	14769								
		OBS	0010	0647	34839	2739			14769								
		STD	0020	0647	3484	2739	0007050	0014	14771								
004		OBS	0020	0647	34839	2739			14771								
		STD	0030	0647	3484	2739	0007057	0021	14772								
		OBS	0030	0647	34840	2739			14772								
		STD	0050	0647	3484	2739	0007080	0035	14776								
		OBS	0050	0647	34841	2739			14776								
		STD	0075	0646	3484	2739	0007083	0053	14779								
		OBS	0075	0646	34844	2739			14779								
		STD	0100	0641	3485	2740	0007034	0071	14782								
		OBS	0100	0641	34847	2740			14782								
		STD	0125	0629	3485	2742	0006866	0088	14781								
		OBS	0125	0629	34854	2742			14781								
		STD	0150	0630	3490	2746	0006573	0105	14786								
		OBS	0150	0630	34900	2746			14786								
		STD	0200	0626	3495	2750	0006193	0137	14794								
		OBS	0200	0626	34954	2750			14794								
		OBS	0225	0601	34954	2754			14788								
		STD	0250	0570	3494	2757	0005631	0166	14779								
		OBS	0250	0570	34944	2757			14779								
		STD	0300	0530	3494	2761	0005268	0194	14771								
		OBS	0300	0530	34936	2761			14771								
		STD	0400	0485	3495	2767	0004778	0244	14769								
		OBS	0400	0485	34946	2767			14769								
		STD	0500	0457	3494	2770	0004584	0291	14774								
		OBS	0500	0457	34943	2770			14774								
		STD	0600	0439	3494	2772	0004479	0336	14783								
		OBS	0600	0439	34943	2772			14783								
		STD	0700	0418	3494	2774	0004335	0380	14791								
		OBS	0700	0418	34943	2774			14791								
		STD	0800	0396	3494	2776	0004226	0423	14798								
		OBS	0800	0396	34936	2776			14798								
		STD	0900	0384	3493	2777	0004251	0465	14810								
		OBS	0900	0384	34926	2777			14810								
		STD	1000	0368	3492	2778	0004165	0507	14820								
		OBS	1000	0368	34924	2778			14820								
		STD	1100	0365	3494	2779	0004118	0549	14835								
		OBS	1100	0365	34937	2779			14835								
		STD	1200	0360	3494	2780	0004134	0590	14850								
		OBS	1200	0360	34938	2780			14850								
		STD	1300	0357	3494	2781	0004151	0631	14866								
		OBS	1300	0357	34942	2781			14866								
		STD	1400	0354	3495	2781	0004158	0673	14881								
		OBS	1400	0354	34947	2781			14881								
		OBS	1450	0351	34948	2782			14888								
		STD	1500	0349	3495	2782	0004153	0714	14896								
		OBS	1500	0349	34950	2782			14896								

TABLE X.—Continued

REFERENCE		SHIP CODE	LATITUDE	LONGITUDE	DUPLICATE	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES			NODC STATION NUMBER
CTRY CODE	ID. NO.		1/10	1/10		10°	1°	MO	DAY	HR 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT		
318043	HT		5240 N	03521 W		184	25	04	13	052	1968	C20	007	3658	15	24	3	4		X1	0	3		0007

WATER		WIND		BAROMETER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
DT	SD	00	S00	169	050	033	7	34	

MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	QUAL. CODE
		STD	0000	0707	3472	2721	0008662	0000	14790								
	052	OBS	0000	0707	34723	2721			14790								
		STD	0010	0707	3472	2721	0008678	0009	14791								
		OBS	0010	0707	34723	2721			14791								
		STD	0020	0704	3472	2722	0008655	0017	14792								
	001	OBS	0020	0704	34723	2722			14792								
		STD	0030	0677	3472	2725	0008316	0026	14783								
		OBS	0030	0677	34723	2725			14783								
		OBS	0040	0642	34746	2732			14771								
		STD	0050	0636	3476	2734	0007545	0042	14770								
		OBS	0050	0636	34760	2734			14770								
		STD	0075	0621	3476	2736	0007408	0060	14768								
		OBS	0075	0621	34758	2736			14768								
		OBS	0090	0599	34759	2738			14762								
		STD	0100	0593	3477	2740	0007022	0078	14761								
		OBS	0100	0593	34768	2740			14761								
		OBS	0110	0596	34777	2740			14764								
		OBS	0120	0607	34795	2740			14771								
		STD	0125	0609	3482	2742	0006882	0096	14773								
		OBS	0125	0609	34818	2742			14773								
		STD	0150	0611	3482	2742	0006928	0113	14778								
		OBS	0150	0611	34820	2742			14778								
		OBS	0190	0604	34846	2745			14782								
		STD	0200	0610	3486	2745	0006703	0147	14786								
		OBS	0200	0610	34858	2745			14786								
		OBS	0225	0620	34948	2751			14795								
		OBS	0240	0603	34938	2752			14791								
		STD	0250	0578	3491	2753	0005984	0179	14782								
		OBS	0250	0578	34910	2753			14782								
		STD	0300	0505	3490	2761	0005253	0207	14760								
		OBS	0300	0505	34898	2761			14760								
		OBS	0315	0500	34898	2762			14761								
		OBS	0330	0509	34918	2762			14767								
		STD	0400	0488	3494	2766	0004888	0258	14770								
		OBS	0400	0488	34936	2766			14770								
		OBS	0440	0485	34947	2767			14776								
		STD	0500	0459	3495	2770	0004577	0305	14775								
		OBS	0500	0459	34947	2770			14775								
		STD	0600	0433	3494	2772	0004447	0350	14781								
		OBS	0600	0433	34938	2772			14781								
		STD	0700	0425	3494	2773	0004454	0395	14794								
		OBS	0700	0425	34938	2773			14794								
		STD	0800	0394	3493	2776	0004277	0438	14797								
		OBS	0800	0394	34926	2776			14797								
		STD	0900	0379	3492	2777	0004244	0481	14808								
		OBS	0900	0379	34919	2777			14808								
		STD	1000	0369	3492	2778	0004213	0523	14820								
		OBS	1000	0369	34919	2778			14820								
		STD	1100	0360	3492	2778	0004191	0565	14833								
		OBS	1100	0360	34919	2778			14833								
		STD	1200	0355	3493	2780	0004140	0607	14848								
		OBS	1200	0355	34929	2780			14848								
		STD	1300	0350	3494	2781	0004101	0648	14863								
		OBS	1300	0350	34937	2781			14863								
		STD	1400	0345	3494	2782	0004104	0689	14877								
		OBS	1400	0345	34939	2782			14877								
		STD	1500	0343	3495	2783	0004069	0730	14894								
		OBS	1500	0343	34951	2783			14894								

TABLE X.—Continued

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	QUAD RADIUS	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER.	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYP	CLOUD CODES: AMT		NODC STATION NUMBER
31	8043	HT	5242 N	03526 W		18	4	25	04	13	115	1968	C20	008	3566	15	29	3	3		X1	0	3		0008

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP °C: DRY BULB	AIR TEMP °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	00	S00	152	072	044	7	31	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10⁸	ΔD DYN. M x 10^5	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_3-Si µg-at/l	pH	LOC
		STD	0000	0724	3476	2720	0008800	0000	14796								
115		OBS	0000	0724	34735	2720			14796								
		STD	0010	0724	3474	2720	0008817	0009	14798								
		OBS	0010	0724	34735	2720			14798								
		STD	0020	0725	3474	2720	0008847	0018	14800								
005		OBS	0020	0725	34735	2720			14800								
		STD	0030	0725	3474	2720	0008863	0026	14802								
		OBS	0030	0725	34735	2720			14802								
		OBS	0045	0722	34722	2719			14803								
		STD	0050	0696	3473	2723	0008537	0044	14794								
		OBS	0050	0696	34731	2723			14794								
		OBS	0060	0625	34743	2734			14767								
		STD	0075	0593	3478	2741	0006927	0063	14757								
		OBS	0075	0593	34776	2741			14757								
		STD	0100	0603	3483	2743	0006697	0080	14766								
		OBS	0100	0603	34828	2743			14766								
		STD	0125	0619	3483	2742	0006896	0097	14777								
		OBS	0125	0619	34833	2742			14777								
		STD	0150	0617	3483	2742	0006906	0114	14780								
		OBS	0150	0617	34833	2742			14780								
		STD	0200	0617	3489	2747	0006547	0148	14789								
		OBS	0200	0617	34891	2747			14789								
		OBS	0225	0618	34932	2750			14794								
		OBS	0230	0602	34934	2752			14789								
		STD	0250	0592	3492	2752	0006085	0180	14788								
		OBS	0250	0592	34920	2752			14788								
		OBS	0275	0541	34892	2756			14771								
		STD	0300	0519	3490	2759	0005434	0209	14766								
		OBS	0300	0519	34896	2759			14766								
		OBS	0310	0509	34912	2762			14764								
		OBS	0315	0517	34962	2765			14769								
		STD	0400	0490	3494	2766	0004874	0260	14771								
		OBS	0400	0490	34941	2766			14771								
		STD	0500	0461	3495	2770	0004564	0307	14776								
		OBS	0500	0461	34952	2770			14776								
		STD	0600	0431	3494	2773	0004379	0352	14780								
		OBS	0600	0431	34944	2773			14780								
		STD	0700	0408	3494	2775	0004219	0395	14787								
		OBS	0700	0408	34943	2775			14787								
		STD	0800	0392	3493	2776	0004194	0437	14797								
		OBS	0800	0392	34934	2776			14797								
		STD	0900	0378	3493	2778	0004136	0479	14807								
		OBS	0900	0378	34932	2778			14807								
		STD	1000	0369	3493	2779	0004117	0520	14820								
		OBS	1000	0369	34932	2779			14820								
		STD	1100	0361	3493	2779	0004100	0561	14834								
		OBS	1100	0361	34933	2779			14834								
		STD	1200	0358	3494	2781	0004066	0602	14849								
		OBS	1200	0358	34944	2781			14849								
		STD	1300	0353	3495	2781	0004072	0643	14864								
		OBS	1300	0353	34946	2781			14864								
		STD	1400	0349	3495	2782	0004058	0683	14879								
		OBS	1400	0349	34952	2782			14879								
		STD	1500	0345	3495	2782	0004124	0724	14894								
		OBS	1500	0345	34947	2782			14894								

TABLE X.—Continued

REFERENCE		SHIP CODE	LATITUDE	LONGITUDE	DECK 19	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES			NODC STATION NUMBER
CNTY CODE	ID. NO		° 1/10	° '1/10		10°	1°	MO	DAY	HR 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT		
318043	MT	5247 N		03538 W		184	25	04	13	178	1968	C20	009	3526	15	35	2	2		X1	0	3		0009

WATER		WIND		BARO-METER (mbs)	AIR TEMP °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
DT	SD	36	S09	152	072	050	7	28	

MESSENGR TIME HR 1/10	CAST NO	CARD TYPE	DEPTH (m)	T °C	S °/₀₀	SIGMA-T	SPECIFIC VOLUME ANOMALY-E10⁷	ΔD DYN. M. E 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₃-N µg-at/l	NO₂-N µg-at/l	SiO₄-Si µg-at/l	pH	QCD
		STD	0000	0662	3482	2735	0007337	0000	14773								
178		OBS	0000	0662	34822	2735			14773								
		STD	0010	0648	3483	2738	0007114	0007	14769								
		OBS	0010	0648	34830	2738			14769								
		STD	0020	0646	3483	2738	0007104	0014	14770								
004		OBS	0020	0646	34830	2738			14770								
		STD	0030	0644	3483	2738	0007094	0021	14771								
		OBS	0030	0644	34830	2738			14771								
		STD	0050	0644	3483	2738	0007124	0036	14774								
		OBS	0050	0644	34830	2738			14774								
		STD	0075	0644	3483	2738	0007162	0054	14779								
		OBS	0075	0644	34830	2738			14779								
		STD	0100	0643	3483	2738	0007186	0071	14782								
		OBS	0100	0643	34830	2738			14782								
		OBS	0120	0633	34850	2741			14782								
		STD	0125	0633	3485	2741	0006947	0089	14783								
		OBS	0125	0633	34850	2741			14783								
		STD	0150	0641	3489	2743	0006789	0106	14790								
		OBS	0150	0641	34890	2743			14790								
		STD	0200	0641	3494	2747	0006477	0139	14799								
		OBS	0200	0641	34942	2747			14799								
		OBS	0230	0605	34970	2754			14790								
		STD	0250	0589	3496	2756	0005749	0170	14787								
		OBS	0250	0589	34960	2756			14787								
		OBS	0275	0568	34944	2757			14782								
		STD	0300	0542	3493	2759	0005473	0198	14776								
		OBS	0300	0542	34928	2759			14776								
		OBS	0350	0529	34930	2761			14779								
		STD	0400	0494	3493	2765	0005003	0250	14773								
		OBS	0400	0494	34930	2765			14773								
		STD	0500	0469	3494	2769	0004725	0299	14779								
		OBS	0500	0469	34943	2769			14779								
		STD	0600	0443	3495	2772	0004474	0345	14785								
		OBS	0600	0443	34950	2772			14785								
		STD	0700	0428	3495	2774	0004401	0389	14795								
		OBS	0700	0428	34950	2774			14795								
		STD	0800	0400	3495	2776	0004206	0432	14800								
		OBS	0800	0400	34945	2776			14800								
		STD	0900	0382	3493	2777	0004198	0475	14809								
		OBS	0900	0382	34930	2777			14809								
		STD	1000	0374	3493	2778	0004177	0516	14822								
		OBS	1000	0374	34932	2778			14822								
		STD	1100	0363	3493	2779	0004131	0558	14835								
		OBS	1100	0363	34932	2779			14835								
		STD	1200	0359	3494	2780	0004107	0599	14850								
		OBS	1200	0359	34940	2780			14850								
		STD	1300	0357	3495	2781	0004106	0640	14866								
		OBS	1300	0357	34948	2781			14866								
		STD	1400	0352	3495	2782	0004096	0681	14880								
		OBS	1400	0352	34952	2782			14880								
		STD	1500	0347	3496	2783	0004039	0722	14895								
		OBS	1500	0347	34962	2783			14895								

Table X.—Continued

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	QUAD	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT		NODC STATION NUMBER
318043	HT	5238 N	03532 W		184	25	04	13	235	1968	C20	010		3182	15	34	3	3		X1	0	3		0010

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP °C: DRY BULB	AIR TEMP °C: WET BULB	VIS. CODE	NO. OBS DEPTHS	SPECIAL OBSERVATIONS
DT	SD	35	S08	195	050	038	7	28	

MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta D$ DYN. M $\Sigma 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_4-Si µg-at/l	pH	VCC
		STD	0000	0733	3473	2718	0008974	0000	14800								
	235	OBS	0000	0733	34728	2718			14800								
		STD	0010	0733	3473	2718	0008990	0009	14802								
		OBS	0010	0733	34728	2718			14802								
		STD	0020	0658	3474	2729	0007943	0017	14774								
		OBS	0020	0658	34738	2729			14774								
		STD	0030	0652	3479	2734	0007516	0025	14774								
		OBS	0030	0652	34787	2734			14774								
		OBS	0040	0632	34789	2737			14767								
		STD	0050	0630	3479	2737	0007253	0040	14768								
		OBS	0050	0630	34789	2737			14768								
		STD	0075	0630	3479	2737	0007290	0058	14772								
		OBS	0075	0630	34789	2737			14772								
		STD	0100	0602	3479	2741	0006938	0076	14765								
		OBS	0100	0602	34794	2741			14765								
		STD	0125	0606	3481	2741	0006941	0093	14771								
		OBS	0125	0606	34805	2741			14771								
		STD	0150	0612	3483	2742	0006896	0111	14778								
		OBS	0150	0612	34826	2742			14778								
		OBS	0170	0612	34826	2742			14781								
		STD	0200	0612	3487	2746	0006610	0144	14787								
		OBS	0200	0612	34874	2746			14787								
		OBS	0230	0611	34925	2750			14792								
		STD	0250	0580	3488	2751	0006210	0176	14782								
		OBS	0250	0580	34883	2751			14782								
		OBS	0270	0594	34914	2751			14792								
		STD	0300	0598	3493	2752	0006193	0207	14798								
		OBS	0300	0598	34925	2752			14798								
		STD	0400	0534	3494	2761	0005390	0265	14789								
		OBS	0400	0534	34943	2761			14789								
		STD	0500	0456	3495	2771	0004512	0315	14774								
		OBS	0500	0456	34951	2771			14774								
		STD	0600	0439	3495	2773	0004405	0359	14783								
		OBS	0600	0439	34953	2773			14783								
		STD	0700	0413	3495	2776	0004210	0402	14789								
		OBS	0700	0413	34952	2776			14789								
		STD	0800	0400	3494	2776	0004213	0445	14800								
		OBS	0800	0400	34944	2776			14800								
		STD	0900	0387	3494	2777	0004212	0487	14811								
		OBS	0900	0387	34936	2777			14811								
		STD	1000	0378	3494	2778	0004195	0529	14824								
		OBS	1000	0378	34936	2778			14824								
		STD	1100	0367	3494	2779	0004150	0570	14836								
		OBS	1100	0367	34936	2779			14836								
		STD	1200	0361	3494	2780	0004154	0612	14850								
		OBS	1200	0361	34937	2780			14850								
		STD	1300	0358	3494	2781	0004156	0654	14866								
		OBS	1300	0358	34943	2781			14866								
		STD	1400	0355	3495	2782	0004134	0695	14882								
		OBS	1400	0355	34952	2782			14882								
		STD	1500	0350	3495	2782	0004165	0736	14896								
		OBS	1500	0350	34950	2782			14896								

TABLE X.—Continued

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPLICATE	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR. 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYP	CLOUD CODES: AMT		NODC STATION NUMBER
318043	HT	5241 N	03537 W		184	25	04	14	051	1968	C20	011		3566	15	29	3	3		X2	0	3		0011

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	31	S09	203	044	033	7	27	

MESSENGR TIME & HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^8	$\Sigma\Delta D$ DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	REC
		STD	0000	0646	3481	2737	0007208	0000	14767								
	051	OBS	0000	0646	34812	2737			14767								
		STD	0010	0646	3481	2737	0007223	0007	14768								
		OBS	0010	0646	34812	2737			14768								
		STD	0020	0646	3481	2737	0007238	0014	14770								
	005	OBS	0020	0646	34812	2737			14770								
		STD	0030	0646	3482	2737	0007179	0022	14772								
		OBS	0030	0646	34822	2737			14772								
		STD	0050	0643	3482	2738	0007171	0036	14774								
		OBS	0050	0643	34822	2738			14774								
		STD	0075	0643	3482	2738	0007209	0054	14778								
		OBS	0075	0643	34822	2738			14778								
		STD	0100	0642	3481	2737	0007315	0072	14782								
		OBS	0100	0642	34811	2737			14782								
		OBS	0120	0613	34813	2741			14773								
		STD	0125	0615	3481	2741	0006994	0090	14775								
		OBS	0125	0615	34813	2741			14775								
		STD	0150	0620	3485	2743	0006840	0107	14781								
		OBS	0150	0620	34847	2743			14781								
		OBS	0165	0630	34876	2744			14788								
		STD	0200	0631	3493	2748	0006444	0141	14795								
		OBS	0200	0631	34929	2748			14795								
		OBS	0225	0629	34938	2749			14799								
		STD	0250	0606	3496	2753	0006002	0172	14794								
		OBS	0250	0606	34955	2753			14794								
		STD	0300	0556	3492	2757	0005704	0201	14781								
		OBS	0300	0556	34920	2757			14781								
		STD	0400	0493	3492	2764	0005081	0255	14772								
		OBS	0400	0493	34918	2764			14772								
		STD	0500	0458	3493	2769	0004714	0304	14774								
		OBS	0500	0458	34927	2769			14774								
		STD	0600	0435	3494	2772	0004470	0350	14781								
		OBS	0600	0435	34938	2772			14781								
		STD	0700	0421	3493	2773	0004474	0394	14792								
		OBS	0700	0421	34929	2773			14792								
		STD	0800	0396	3493	2775	0004292	0438	14798								
		OBS	0800	0396	34927	2775			14798								
		STD	0900	0381	3492	2776	0004260	0481	14809								
		OBS	0900	0381	34920	2776			14809								
		STD	1000	0372	3492	2777	0004242	0524	14821								
		OBS	1000	0372	34920	2777			14821								
		STD	1100	0365	3492	2778	0004236	0566	14835								
		OBS	1100	0365	34921	2778			14835								
		STD	1200	0359	3493	2779	0004218	0608	14849								
		OBS	1200	0359	34925	2779			14849								
		STD	1300	0354	3493	2780	0004202	0650	14864								
		OBS	1300	0354	34930	2780			14864								
		STD	1400	0353	3494	2781	0004189	0692	14881								
		OBS	1400	0353	34941	2781			14881								
		STD	1500	0347	3494	2781	0004230	0734	14895								
		OBS	1500	0347	34936	2781			14895								

Table X.—Continued

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICTR	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT.	WAVE OBSERVATIONS: PER.	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYP.	CLOUD CODES: AMT.		NODC STATION NUMBER
31	8043	HT	5239 N	03528 W		18	4	25	04	14	1968	C20	012	3567	15	31	2	2		X2	0	3		0012

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	27	S08	200	056	039	7	31	

MESSENGR TIME OR T HR 1/10	CAST NO	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta D$ DYN. M x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	QC
		STD	0000	0624	3474	2734	0007456	0000	14757								
117		OBS	0000	0624	34742	2734			14757								
		STD	0010	0624	3475	2735	0007396	0007	14759								
		OBS	0010	0624	34752	2735			14759								
		STD	0020	0624	3475	2735	0007410	0015	14760								
005		OBS	0020	0624	34752	2735			14760								
		STD	0030	0616	3478	2738	0007101	0022	14759								
		OBS	0030	0616	34782	2738			14759								
		OBS	0040	0629	34802	2738			14766								
		STD	0050	0633	3481	2738	0007149	0036	14770								
		OBS	0050	0633	34808	2738			14770								
		STD	0075	0634	3481	2738	0007169	0054	14774								
		OBS	0075	0634	34812	2738			14774								
		STD	0100	0625	3482	2740	0007054	0072	14775								
		OBS	0100	0625	34817	2740			14775								
		OBS	0115	0619	34828	2741			14775								
		STD	0125	0623	3484	2742	0006894	0089	14778								
		OBS	0125	0623	34840	2742			14778								
		STD	0150	0623	3484	2742	0006930	0107	14783								
		OBS	0150	0623	34840	2742			14783								
		OBS	0160	0619	34855	2743			14783								
		STD	0200	0631	3492	2747	0006496	0140	14795								
		OBS	0200	0631	34922	2747			14795								
		OBS	0230	0623	34922	2748			14797								
		STD	0250	0593	3494	2754	0005934	0171	14788								
		OBS	0250	0593	34942	2754			14788								
		OBS	0255	0588	34972	2757			14788								
		OBS	0275	0583	34972	2757			14789								
		STD	0300	0547	3494	2759	0005429	0200	14778								
		OBS	0300	0547	34942	2759			14778								
		OBS	0350	0512	34922	2762			14772								
		STD	0400	0487	3491	2764	0005055	0252	14770								
		OBS	0400	0487	34912	2764			14770								
		STD	0500	0459	3492	2768	0004763	0301	14775								
		OBS	0500	0459	34922	2768			14775								
		STD	0600	0443	3493	2770	0004645	0348	14785								
		OBS	0600	0443	34927	2770			14785								
		STD	0700	0418	3492	2773	0004476	0394	14791								
		OBS	0700	0418	34924	2773			14791								
		STD	0800	0400	3492	2774	0004391	0438	14800								
		OBS	0800	0400	34920	2774			14800								
		STD	0900	0386	3491	2775	0004378	0482	14811								
		OBS	0900	0386	34912	2775			14811								
		STD	1000	0374	3492	2777	0004250	0525	14822								
		OBS	1000	0374	34922	2777			14822								
		STD	1100	0368	3491	2777	0004339	0568	14836								
		OBS	1100	0368	34912	2777			14836								
		STD	1200	0362	3493	2779	0004240	0611	14851								
		OBS	1200	0362	34927	2779			14851								
		STD	1300	0357	3494	2781	0004151	0653	14866								
		OBS	1300	0357	34942	2781			14866								
		STD	1400	0355	3495	2781	0004178	0695	14882								
		OBS	1400	0355	34946	2781			14882								
		STD	1500	0349	3496	2783	0004079	0736	14896								
		OBS	1500	0349	34960	2783			14896								

Table X.—Continued

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPE. CHECK	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'G	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT.	WAVE OBSERVATIONS: PER.	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYP.	CLOUD CODES: AMT.	NODC STATION NUMBER
31	8043	HT	52525N	03533 W		184	25	04	14	173	1968	C20	013	2578	15	23			1	X2	0	3	0013

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	22	S20	122	067	061	7	27	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA–T	SPECIFIC VOLUME ANOMALY–10^5	$\Sigma\Delta D$ DYN. M x 10^2	SOUND VELOCITY	O_2 ml/l	PO_4–P µg-at/l	TOTAL–P µg-at/l	NO_2–N µg-at/l	NO_3–N µg-at/l	SiO_4–Si µg-at/l	pH	SCC
		STD	0000	0642	3478	2735	0007367	0000	14765								
173		OBS	0000	0642	34784	2735			14765								
		STD	0010	0642	3478	2735	0007382	0007	14766								
		OBS	0010	0642	34784	2735			14766								
		STD	0020	0641	3478	2735	0007384	0015	14768								
006		OBS	0020	0641	34784	2735			14768								
		STD	0030	0641	3478	2735	0007399	0022	14769								
		OBS	0030	0641	34784	2735			14769								
		STD	0050	0640	3478	2735	0007416	0037	14772								
		OBS	0050	0640	34784	2735			14772								
		STD	0075	0638	3478	2735	0007428	0056	14776								
		OBS	0075	0638	34784	2735			14776								
		STD	0100	0636	3482	2738	0007171	0074	14779								
		OBS	0100	0636	34820	2738			14779								
		STD	0125	0632	3485	2741	0006949	0091	14782								
		OBS	0125	0632	34848	2741			14782								
		STD	0150	0632	3487	2743	0006792	0109	14787								
		OBS	0150	0632	34874	2743			14787								
		OBS	0185	0631	34901	2746			14792								
		STD	0200	0620	3492	2748	0006377	0142	14791								
		OBS	0200	0620	34919	2748			14791								
		STD	0250	0607	3495	2752	0006089	0173	14794								
		OBS	0250	0607	34945	2752			14794								
		STD	0300	0583	3495	2756	0005787	0202	14793								
		OBS	0300	0583	34954	2756			14793								
		OBS	0325	0558	34925	2757			14786								
		OBS	0370	0544	34905	2757			14788								
		STD	0400	0511	3489	2760	0005489	0259	14779								
		OBS	0400	0511	34892	2760			14779								
		STD	0500	0462	3489	2765	0005074	0312	14775								
		OBS	0500	0462	34885	2765			14775								
		STD	0600	0429	3491	2770	0004616	0360	14779								
		OBS	0600	0429	34909	2770			14779								
		STD	0700	0405	3491	2773	0004451	0405	14785								
		OBS	0700	0405	34907	2773			14785								
		STD	0800	0389	3490	2774	0004381	0450	14795								
		OBS	0800	0389	34904	2774			14795								
		STD	0900	0375	3490	2775	0004330	0493	14806								
		OBS	0900	0375	34901	2775			14806								
		STD	1000	0368	3492	2778	0004194	0536	14820								
		OBS	1000	0368	34920	2778			14820								
		STD	1100	0360	3493	2779	0004139	0577	14833								
		OBS	1100	0360	34926	2779			14833								
		STD	1200	0359	3493	2779	0004181	0619	14850								
		OBS	1200	0359	34930	2779			14850								
		STD	1300	0355	3493	2780	0004221	0661	14865								
		OBS	1300	0355	34929	2780			14865								
		STD	1400	0348	3494	2781	0004141	0703	14879								
		OBS	1400	0348	34939	2781			14879								
		STD	1500	0343	3495	2782	0004099	0744	14893								
		OBS	1500	0343	34947	2782			14893								

Table X.—Continued

REFERENCE: CITY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPE RECORD	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPLS	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT.	WAVE OBSERVATIONS: PER.	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT.		NODC STATION NUMBER
—	—		°	°		10°	1°	MO	DAY	HR 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT.	PER.	SEA					
318043	HT	5252	N	03531	W	184	25	04	14	234	1968	C20	014	3365	15	31	3	3		X1	0	3		0014

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP °C: DRY BULB	AIR TEMP °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	31	S33	122	050	039	7	27	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-E10⁸	∑ΔD DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	1000
		STD	0000	0624	3479	2738	0007097	0000	14758								
234		OBS	0000	0624	34790	2738			14758								
		STD	0010	0624	3479	2738	0007112	0007	14759								
		OBS	0010	0624	34790	2738			14759								
		STD	0020	0624	3479	2738	0007126	0014	14761								
005		OBS	0020	0624	34790	2738			14761								
		STD	0030	0624	3479	2738	0007141	0021	14763								
		OBS	0030	0624	34790	2738			14763								
		STD	0050	0624	3479	2738	0007170	0036	14766								
		OBS	0050	0624	34790	2738			14766								
		STD	0075	0624	3479	2738	0007207	0054	14770								
		OBS	0075	0624	34790	2738			14770								
		STD	0100	0623	3479	2738	0007230	0072	14774								
		OBS	0100	0623	34790	2738			14774								
		STD	0125	0625	3479	2738	0007292	0090	14779								
		OBS	0125	0625	34790	2738			14779								
		STD	0150	0638	3489	2744	0006750	0107	14789								
		OBS	0150	0638	34890	2744			14789								
		STD	0200	0628	3494	2749	0006323	0140	14794								
		OBS	0200	0628	34940	2749			14794								
		STD	0250	0623	3499	2754	0005960	0171	14801								
		OBS	0250	0623	34990	2754			14801								
		OBS	0275	0598	34985	2756			14795								
		STD	0300	0572	3496	2758	0005590	0200	14788								
		OBS	0300	0572	34962	2758			14788								
		OBS	0325	0539	34940	2760			14779								
		OBS	0375	0517	34930	2762			14778								
		STD	0400	0497	3493	2764	0005039	0253	14774								
		OBS	0400	0497	34930	2764			14774								
		STD	0500	0461	3493	2769	0004727	0302	14776								
		OBS	0500	0461	34930	2769			14776								
		STD	0600	0431	3493	2772	0004483	0348	14780								
		OBS	0600	0431	34930	2772			14780								
		STD	0700	0415	3493	2774	0004396	0392	14790								
		OBS	0700	0415	34930	2774			14790								
		STD	0800	0400	3493	2775	0004317	0436	14800								
		OBS	0800	0400	34930	2775			14800								
		STD	0900	0383	3493	2777	0004209	0478	14809								
		OBS	0900	0383	34930	2777			14809								
		STD	1000	0369	3493	2778	0004132	0520	14820								
		OBS	1000	0369	34930	2778			14820								
		STD	1100	0366	3493	2779	0004182	0562	14836								
		OBS	1100	0366	34930	2779			14836								
		STD	1200	0358	3493	2780	0004169	0603	14849								
		OBS	1200	0358	34930	2780			14849								
		STD	1300	0352	3493	2780	0004148	0645	14863								
		OBS	1300	0352	34934	2780			14863								
		STD	1400	0347	3494	2781	0004122	0686	14878								
		OBS	1400	0347	34940	2781			14878								
		STD	1500	0346	3495	2782	0004115	0727	14895								
		OBS	1500	0346	34950	2782			14895								

TABLE X.—Continued

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	SHIFT BOATR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAT	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT.	WAVE OBSERVATIONS: PER.	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT.		NODC STATION NUMBER
318043		HT	5237 N	03527 W		184	25	04	16	173	1968	C20	015	2889	15	35	5	3		X2	0	3		0015

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP °C: DRY BULB	AIR TEMP °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	01	S20	164	083	072	7	27	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\frac{\Delta D}{\Delta P}$ DYN. M $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_4-Si µg-at/l	pH	ICC
		STD	0000	0627	3478	2737	0007209	0000	14759								
	173	OBS	0000	0627	34780	2737			14759								
		STD	0010	0627	3478	2737	0007224	0007	14760								
		OBS	0010	0627	34780	2737			14760								
		STD	0020	0627	3478	2737	0007238	0014	14762								
	005	OBS	0020	0627	34780	2737			14762								
		STD	0030	0622	3478	2737	0007191	0022	14762								
		OBS	0030	0622	34780	2737			14762								
		STD	0050	0622	3478	2737	0007220	0036	14765								
		OBS	0050	0622	34780	2737			14765								
		STD	0075	0621	3478	2737	0007244	0054	14769								
		OBS	0075	0621	34780	2737			14769								
		STD	0100	0619	3478	2738	0007255	0072	14772								
		OBS	0100	0619	34780	2738			14772								
		STD	0125	0618	3478	2738	0007278	0090	14776								
		OBS	0125	0618	34780	2738			14776								
		OBS	0135	0598	34760	2739			14769								
		STD	0150	0596	3480	2742	0006912	0108	14771								
		OBS	0150	0596	34797	2742			14771								
		OBS	0178	0595	34835	2745			14776								
		OBS	0190	0570	34830	2748			14768								
		STD	0200	0589	3492	2753	0005970	0140	14778								
		OBS	0200	0589	34921	2753			14778								
		STD	0250	0569	3494	2757	0005634	0169	14779								
		OBS	0250	0569	34942	2757			14779								
		STD	0300	0529	3493	2761	0005293	0197	14771								
		OBS	0300	0529	34931	2761			14771								
		STD	0400	0470	3492	2767	0004811	0247	14763								
		OBS	0400	0470	34918	2767			14763								
		STD	0500	0447	3494	2771	0004490	0294	14770								
		OBS	0500	0447	34940	2771			14770								
		STD	0600	0426	3494	2773	0004350	0338	14778								
		OBS	0600	0426	34940	2773			14778								
		STD	0700	0404	3493	2775	0004246	0381	14785								
		OBS	0700	0404	34933	2775			14785								
		STD	0800	0391	3493	2776	0004197	0423	14796								
		OBS	0800	0391	34932	2776			14796								
		STD	0900	0377	3493	2778	0004132	0465	14807								
		OBS	0900	0377	34931	2778			14807								
		STD	1000	0368	3492	2778	0004179	0506	14820								
		OBS	1000	0368	34922	2778			14820								
		STD	1100	0360	3492	2779	0004162	0548	14833								
		OBS	1100	0360	34923	2779			14833								
		STD	1200	0356	3493	2780	0004122	0589	14848								
		OBS	1200	0356	34933	2780			14848								
		STD	1300	0351	3494	2781	0004077	0630	14863								
		OBS	1300	0351	34942	2781			14863								
		STD	1400	0347	3495	2782	0004034	0671	14878								
		OBS	1400	0347	34952	2782			14878								
		STD	1500	0340	3495	2783	0004009	0711	14892								
		OBS	1500	0340	34954	2783			14892								

Table X.—Continued

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	QUAD	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR 1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PRD	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	043	HT	5242 N	03527 W		184	25	04	16	237	1968	C20	016	3475	15	39	3	2		X2	0	3		0016

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	01	S25	086	067	061	6	30	

MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta D$ DYN. M. $\Sigma 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_4-Si µg-at/l	pH	CCC
		STD	0000	0632	3481	2738	0007085	0000	14761								
237		OBS	0000	0632	34805	2738			14761								
		STD	0010	0632	3481	2738	0007099	0007	14763								
		OBS	0010	0632	34805	2738			14763								
		STD	0020	0632	3481	2738	0007114	0014	14764								
005		OBS	0020	0632	34805	2738			14764								
		STD	0030	0632	3481	2738	0007129	0021	14766								
		OBS	0030	0632	34805	2738			14766								
		STD	0050	0632	3481	2738	0007121	0036	14769								
		OBS	0050	0632	34810	2738			14769								
		STD	0075	0630	3481	2738	0007133	0053	14773								
		OBS	0075	0630	34810	2738			14773								
		STD	0100	0629	3481	2739	0007127	0071	14776								
		OBS	0100	0629	34814	2739			14776								
		STD	0125	0629	3481	2739	0007164	0089	14781								
		OBS	0125	0629	34814	2739			14781								
		STD	0150	0629	3481	2739	0007201	0107	14785								
		OBS	0150	0629	34814	2739			14785								
		OBS	0160	0623	34850	2743			14784								
		STD	0200	0629	3491	2746	0006559	0141	14794								
		OBS	0200	0629	34910	2746			14794								
		STD	0250	0600	3494	2753	0006037	0173	14791								
		OBS	0250	0600	34940	2753			14791								
		OBS	0285	0573	34970	2758			14786								
		STD	0300	0542	3493	2759	0005458	0202	14776								
		OBS	0300	0542	34930	2759			14776								
		OBS	0317	0545	34940	2760			14780								
		OBS	0332	0510	34890	2760			14767								
		OBS	0338	0520	34930	2762			14773								
		OBS	0350	0521	34930	2762			14776								
		STD	0400	0484	3493	2766	0004885	0253	14769								
		OBS	0400	0484	34930	2766			14769								
		STD	0500	0461	3493	2769	0004727	0301	14776								
		OBS	0500	0461	34930	2769			14776								
		STD	0600	0431	3493	2772	0004483	0347	14780								
		OBS	0600	0431	34930	2772			14780								
		STD	0700	0418	3493	2773	0004431	0392	14791								
		OBS	0700	0418	34930	2773			14791								
		STD	0800	0398	3493	2775	0004294	0436	14799								
		OBS	0800	0398	34930	2775			14799								
		STD	0900	0382	3492	2776	0004272	0479	14809								
		OBS	0900	0382	34920	2776			14809								
		STD	1000	0370	3492	2778	0004218	0521	14821								
		OBS	1000	0370	34920	2778			14821								
		STD	1100	0364	3492	2778	0004232	0563	14835								
		OBS	1100	0364	34920	2778			14835								
		STD	1200	0362	3493	2779	0004217	0605	14851								
		OBS	1200	0362	34930	2779			14851								
		STD	1300	0350	3494	2781	0004079	0647	14863								
		OBS	1300	0350	34940	2781			14863								
		STD	1400	0355	3495	2781	0004148	0688	14882								
		OBS	1400	0355	34950	2781			14882								
		STD	1500	0349	3495	2782	0004131	0729	14896								
		OBS	1500	0349	34953	2782			14896								

TABLE X.—Continued

REFERENCE: CITY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPLICATE	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR. 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT		NODC STATION NUMBER
318043		HT	5235 N	03545 W	D	184	25	04	17	050	1968	C20	017	3117	15	01			2	X2	0	3		0017

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	01	S14	180	072	056	6	27	

MESSENGR TIME OF MB 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_4-Si µg-at/l	pH	S=0
		STD	0000	0626	3476	2735	0007368	0000	14758								
	050	OBS	0000	0626	34757	2735			14758								
		STD	0010	0626	3476	2735	0007338	0007	14760								
		OBS	0010	0626	34763	2735			14760								
		STD	0020	0626	3476	2735	0007353	0015	14761								
	005	OBS	0020	0626	34763	2735			14761								
		STD	0030	0626	3477	2736	0007323	0022	14763								
		OBS	0030	0626	34769	2736			14763								
		STD	0050	0626	3479	2737	0007203	0037	14767								
		OBS	0050	0626	34789	2737			14767								
		STD	0075	0625	3481	2739	0007055	0054	14771								
		OBS	0075	0625	34812	2739			14771								
		STD	0100	0623	3482	2740	0007007	0072	14774								
		OBS	0100	0623	34820	2740			14774								
		STD	0125	0620	3482	2741	0007005	0089	14777								
		OBS	0125	0620	34820	2741			14777								
		STD	0150	0621	3483	2741	0006972	0107	14782								
		OBS	0150	0621	34831	2741			14782								
		STD	0200	0615	3490	2748	0006439	0140	14788								
		OBS	0200	0615	34902	2748			14788								
		OBS	0215	0616	34940	2751			14792								
		STD	0250	0578	3494	2755	0005760	0171	14782								
		OBS	0250	0578	34940	2755			14782								
		OBS	0275	0534	34931	2760			14768								
		OBS	0290	0543	34958	2761			14775								
		STD	0300	0540	3496	2762	0005225	0198	14775								
		OBS	0300	0540	34958	2762			14775								
		STD	0400	0484	3494	2767	0004811	0249	14769								
		OBS	0400	0484	34940	2767			14769								
		STD	0500	0451	3495	2771	0004477	0295	14772								
		OBS	0500	0451	34948	2771			14772								
		STD	0600	0430	3495	2773	0004352	0339	14779								
		OBS	0600	0430	34946	2773			14779								
		STD	0700	0411	3494	2775	0004268	0382	14788								
		OBS	0700	0411	34941	2775			14788								
		STD	0800	0395	3494	2777	0004184	0425	14798								
		OBS	0800	0395	34940	2777			14798								
		STD	0900	0378	3493	2777	0004158	0466	14807								
		OBS	0900	0378	34929	2777			14807								
		STD	1000	0370	3493	2779	0004122	0508	14821								
		OBS	1000	0370	34933	2779			14821								
		STD	1100	0361	3494	2780	0004055	0549	14834								
		OBS	1100	0361	34939	2780			14834								
		STD	1200	0354	3494	2781	0004047	0589	14848								
		OBS	1200	0354	34940	2781			14848								
		STD	1300	0351	3495	2782	0004010	0629	14863								
		OBS	1300	0351	34951	2782			14863								
		STD	1400	0346	3495	2782	0004028	0670	14878								
		OBS	1400	0346	34951	2782			14878								
		STD	1500	0345	3496	2783	0004051	0710	14894								
		OBS	1500	0345	34957	2783			14894								

TABLE X.—Continued

REFERENCE: CSTN CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPE RECD	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR.1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT		NODC STATION NUMBER
	318043	HT	5239 N	035435W	D	184	25	04	17	115	1968	C20	018	3430	15	36			3	X1	0	3		0018

WATER: COLOR CODE	WATER: TRANS (m)	WIND: DIR.	WIND: SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	35	S20	159	081	067	6	25	

MESSENGER TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_4-Si µg-at/l	pH	QUAL CODE
		STD	0000	0629	3478	2736	0007234	0000	14760								
115		OBS	0000	0629	34780	2736			14760								
		STD	0010	0628	3478	2736	0007236	0007	14761								
		OBS	0010	0628	34780	2736			14761								
		STD	0020	0628	3478	2736	0007258	0014	14762								
004		OBS	0020	0628	34779	2736			14762								
		STD	0030	0628	3478	2736	0007273	0022	14764								
		OBS	0030	0628	34779	2736			14764								
		STD	0050	0624	3478	2737	0007260	0036	14766								
		OBS	0050	0624	34778	2737			14766								
		STD	0075	0623	3479	2738	0007202	0054	14770								
		OBS	0075	0623	34789	2738			14770								
		STD	0100	0623	3479	2738	0007230	0072	14774								
		OBS	0100	0623	34790	2738			14774								
		STD	0125	0624	3479	2738	0007279	0091	14778								
		OBS	0125	0624	34790	2738			14778								
		STD	0150	0622	3481	2740	0007126	0109	14782								
		OBS	0150	0622	34812	2740			14782								
		STD	0200	0619	3483	2741	0007026	0144	14789								
		OBS	0200	0619	34830	2741			14789								
		OBS	0240	0630	34932	2748			14801								
		STD	0250	0598	3492	2751	0006146	0177	14790								
		OBS	0250	0598	34922	2751			14790								
		STD	0300	0582	3497	2757	0005671	0206	14793								
		OBS	0300	0582	34968	2757			14793								
		STD	0400	0491	3493	2765	0004968	0260	14771								
		OBS	0400	0491	34930	2765			14771								
		STD	0500	0460	3494	2769	0004641	0308	14775								
		OBS	0500	0460	34940	2769			14775								
		STD	0600	0436	3495	2773	0004392	0353	14782								
		OBS	0600	0436	34950	2773			14782								
		STD	0700	0413	3494	2775	0004299	0396	14789								
		OBS	0700	0413	34940	2775			14789								
		STD	0800	0396	3494	2776	0004211	0439	14798								
		OBS	0800	0396	34938	2776			14798								
		STD	0900	0380	3493	2777	0004174	0481	14808								
		OBS	0900	0380	34930	2777			14808								
		STD	1000	0373	3493	2778	0004180	0522	14822								
		OBS	1000	0373	34930	2778			14822								
		STD	1100	0363	3493	2779	0004146	0564	14834								
		OBS	1100	0363	34930	2 79			14834								
		STD	1200	0359	3494	2780	0004129	0606	14850								
		OBS	1200	0359	34937	2780			14850								
		STD	1300	0355	3494	2781	0004126	0647	14865								
		OBS	1300	0355	34942	2781			14865								
		STD	1400	0354	3495	2781	0004143	0688	14881								
		OBS	1400	0354	34949	2781			14881								
		STD	1500	0352	3495	2782	0004191	0730	14897								
		OBS	1500	0352	34950	2782			14897								

Table X.—Continued

REFERENCE: CSTP CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPE INDICA	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYP	CLOUD CODES: AMT		NODC STATION NUMBER
	318043	MT	5247 N	03541 W	D	184	25	04	17	174	1968	C20	019	3658	15	36	2	2		X2	0	3		0019

WATER: COLOR CODE	WATER: TRANS. cm	WIND: DIR.	WIND: SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	35	S20	137	067	067	6	30	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10⁸	Σ Δ D DYN. M. x 10⁵	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_4-Si µg-at/l	pH	
		STD	0000	0654	3476	2731	0007705	0000	14769								
174		OBS	0000	0654	34759	2731			14769								
		STD	0010	0654	3476	2731	0007728	0008	14771								
		OBS	0010	0654	34758	2731			14771								
		STD	0020	0654	3476	2731	0007728	0015	14773								
005		OBS	0020	0654	34760	2731			14773								
		STD	0030	0653	3477	2732	0007693	0023	14774								
		OBS	0030	0653	34765	2732			14774								
		OBS	0035	0653	34812	2736			14775								
		OBS	0045	0632	34812	2738			14769								
		STD	0050	0631	3481	2738	0007094	0038	14769								
		OBS	0050	0631	34812	2738			14769								
		STD	0075	0629	3481	2739	0007105	0056	14772								
		OBS	0075	0629	34812	2739			14772								
		STD	0100	0627	3481	2739	0007109	0073	14776								
		OBS	0100	0627	34813	2739			14776								
		STD	0125	0627	3482	2740	0007094	0091	14780								
		OBS	0125	0627	34820	2740			14780								
		STD	0150	0625	3482	2740	0007083	0109	14783								
		OBS	0150	0625	34823	2740			14783								
		OBS	0160	0623	34831	2741			14784								
		OBS	0165	0616	34831	2742			14782								
		STD	0200	0614	3489	2747	0006501	0143	14788								
		OBS	0200	0614	34892	2747			14788								
		OBS	0230	0614	34938	2751			14793								
		STD	0250	0599	3497	2755	0005824	0174	14791								
		OBS	0250	0599	34967	2755			14791								
		OBS	0275	0533	34892	2757			14768								
		STD	0300	0518	3490	2760	0005392	0202	14766								
		OBS	0300	0518	34900	2760			14766								
		STD	0400	0487	3494	2766	0004861	0253	14770								
		OBS	0400	0487	34938	2766			14770								
		STD	0500	0453	3494	2770	0004544	0300	14772								
		OBS	0500	0453	34942	2770			14772								
		STD	0600	0435	3495	2773	0004403	0345	14782								
		OBS	0600	0435	34947	2773			14782								
		STD	0700	0411	3493	2774	0004350	0389	14788								
		OBS	0700	0411	34930	2774			14788								
		STD	0800	0396	3493	2776	0004270	0432	14798								
		OBS	0800	0396	34930	2776			14798								
		STD	0900	0380	3492	2777	0004233	0474	14808								
		OBS	0900	0380	34922	2777			14808								
		STD	1000	0372	3492	2777	0004234	0516	14821								
		OBS	1000	0372	34921	2777			14821								
		STD	1100	0364	3493	2779	0004165	0558	14835								
		OBS	1100	0364	34929	2779			14835								
		STD	1200	0360	3493	2779	0004200	0600	14850								
		OBS	1200	0360	34929	2779			14850								
		STD	1300	0357	3494	2780	0004173	0642	14866								
		OBS	1300	0357	34939	2780			14866								
		STD	1400	0350	3495	2782	0004093	0684	14880								
		OBS	1400	0350	34949	2782			14880								
		STD	1500	0349	3495	2782	0004153	0725	14896								
		OBS	1500	0349	34950	2782			14896								

TABLE X.—Continued

REFERENCE: CSTP CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DEPTH INDEX	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT		NODC STATION NUMBER
318043		HT	5242 N	03542 W	D	184	25	04	17	233	1968	C20	020	3566	15	01			2	X2	0	3		0020

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	01	S30	112	072	061	6	30	

MESSENGER (hm) HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^5	$\Sigma\Delta D$ DYN. M. $\Sigma 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_4-Si µg-at/l	pH	REC CD
		STD	0000	0647	3475	2731	0007684	0000	14766								
	233	OBS	0000	0647	34750	2731			14766								
		STD	0010	0647	3475	2731	0007699	0008	14768								
		OBS	0010	0647	34750	2731			14768								
		STD	0020	0647	3475	2732	0007684	0015	14770								
	004	OBS	0020	0647	34754	2732			14770								
		STD	0030	0646	3476	2732	0007671	0023	14771								
		OBS	0030	0646	34756	2732			14771								
		STD	0050	0633	3477	2735	0007470	0038	14769								
		OBS	0050	0633	34765	2735			14769								
		STD	0075	0631	3477	2736	0007408	0057	14772								
		OBS	0090	0629	34780	2736			14774								
		STD	0100	0607	3478	2739	0007105	0075	14767								
		OBS	0100	0607	34780	2739			14767								
		OBS	0105	0603	34778	2739			14766								
		STD	0125	0605	3479	2740	0007041	0093	14771								
		OBS	0125	0605	34790	2740			14771								
		OBS	0130	0617	34805	2740			14776								
		STD	0150	0597	3479	2741	0006976	0110	14772								
		OBS	0150	0597	34790	2741			14772								
		OBS	0160	0599	34820	2743			14774								
		OBS	0175	0593	34838	2745			14775								
		STD	0200	0580	3486	2749	0006298	0143	14774								
		OBS	0200	0580	34862	2749			14774								
		STD	0250	0535	3489	2757	0005622	0173	14764								
		OBS	0250	0535	34888	2757			14764								
		STD	0300	0510	3493	2763	0005059	0200	14763								
		OBS	0300	0510	34932	2763			14763								
		STD	0400	0463	3492	2768	0004693	0249	14760								
		OBS	0400	0463	34923	2768			14760								
		STD	0500	0445	3493	2771	0004511	0295	14769								
		OBS	0500	0445	34934	2771			14769								
		STD	0600	0428	3495	2774	0004322	0339	14779								
		OBS	0600	0428	34947	2774			14779								
		STD	0700	0405	3494	2775	0004243	0382	14785								
		OBS	0700	0405	34935	2775			14785								
		STD	0800	0390	3493	2777	0004171	0424	14796								
		OBS	0800	0390	34934	2777			14796								
		STD	0900	0377	3493	2778	0004146	0465	14807								
		OBS	0900	0377	34929	2778			14807								
		STD	1000	0366	3493	2779	0004089	0506	14819								
		OBS	1000	0366	34931	2779			14819								
		STD	1100	0361	3493	2780	0004092	0547	14834								
		OBS	1100	0361	34934	2780			14834								
		STD	1200	0357	3494	2780	0004120	0588	14849								
		OBS	1200	0357	34935	2780			14849								
		OBS	1250	0355	34937	2780			14856								
		STD	1300	0354													
		OBS	1300	0354													
		STD	1400	0353													
		OBS	1400	0353													
		STD	1500	0351													
		OBS	1500	0351													

Table X.—Continued

REFERENCE: CTRY CODE	REFERENCE: NO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	QUAD NUMBER	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR. 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT.	WAVE OBSERVATIONS: PER.	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT.		NODC STATION NUMBER
318043		HT	5242 N	03515 W	D	184	25	04	18	112	1968	C20	021	3566	15	36			3	X2	0	3		0021

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	35	S29	081	067	067	6	33	

MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY—10^7	$\Sigma\Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	QCD
		STD	0000	0656	3476	2731	0007708	0000	14770								
112		OBS	0000	0656	34762	2731			14770								
		STD	0010	0656	3476	2731	0007724	0008	14772								
		OBS	0010	0656	34762	2731			14772								
		STD	0020	0655	3476	2731	0007726	0015	14773								
003		OBS	0020	0655	34762	2731			14773								
		STD	0030	0654	3476	2732	0007728	0023	14774								
		OBS	0030	0654	34762	2732			14774								
		OBS	0040	0654	34762	2732			14776								
		STD	0050	0644	3479	2735	0007407	0038	14774								
		OBS	0050	0644	34792	2735			14774								
		OBS	0055	0629	34783	2736			14769								
		STD	0075	0626	3480	2738	0007157	0057	14771								
		OBS	0075	0626	34800	2738			14771								
		OBS	0080	0625	34818	2740			14772								
		STD	0100	0613	3481	2741	0006963	0074	14770								
		OBS	0100	0613	34809	2741			14770								
		OBS	0110	0601	34789	2741			14767								
		OBS	0120	0589	34780	2741			14763								
		STD	0125	0595	3480	2742	0006842	0091	14767								
		OBS	0125	0595	34800	2742			14767								
		STD	0150	0583	3480	2744	0006751	0108	14766								
		OBS	0150	0583	34797	2744			14766								
		OBS	0160	0576	34812	2746			14765								
		STD	0200	0582	3488	2750	0006189	0141	14775								
		OBS	0200	0582	34880	2750			14775								
		STD	0250	0561	3491	2755	0005803	0171	14775								
		OBS	0250	0561	34906	2755			14775								
		STD	0300	0514	3492	2762	0005203	0198	14764								
		OBS	0300	0514	34919	2762			14764								
		OBS	0330	0482	34905	2764			14756								
		OBS	0380	0469	34907	2766			14759								
		OBS	0390	0479	34943	2768			14765								
		STD	0400	0474	3494	2768	0004671	0248	14765								
		OBS	0400	0474	34943	2768			14765								
		STD	0500	0445	3494	2771	0004437	0293	14769								
		OBS	0500	0445	34944	2771			14769								
		STD	0600	0426	3494	2774	0004321	0337	14778								
		OBS	0600	0426	34944	2774			14778								
		STD	0700	0409	3494	2775	0004252	0380	14787								
		OBS	0700	0409	34940	2775			14787								
		STD	0800	0391	3494	2777	0004153	0422	14796								
		OBS	0800	0391	34938	2777			14796								
		STD	0900	0378	3493	2778	0004128	0463	14807								
		OBS	0900	0378	34933	2778			14807								
		STD	1000	0369	3493	2778	0004132	0505	14820								
		OBS	1000	0369	34930	2778			14820								
		STD	1100	0362	3494	2780	0004067	0546	14834								
		OBS	1100	0362	34939	2780			14834								
		STD	1200	0357	3494	2780	0004090	0586	14849								
		OBS	1200	0357	34939	2780			14849								
		STD	1300	0355	3495	2781	0004104	0627	14865								
		OBS	1300	0355	34945	2781			14865								
		STD	1400	0348	3495	2782	0004097	0668	14879								
		OBS	1400	0348	34945	2782			14879								
		STD	1500	0345	3496	2783	0004051	0709	14894								
		OBS	1500	0345	34957	2783			14894								

Table X.—Continued

REFERENCE: CSTP CODE	REFERENCE: IO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	BLOCK	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR. 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPLG	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYP	CLOUD CODES: AMT		NODC STATION NUMBER
318043		HT	5238 N	03540 W		184	25	04	19	172	1968	C20	022	3072	15	32			3	X2	0	3		0022

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	34	S20	088	061	096	7	32	

MESSENGR TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S °/₀₀	SIGMA-T	SPECIFIC VOLUME ANOMALY-10⁷	ΔD DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₃-N µg-at/l	NO₂-N µg-at/l	SiO₄-Si µg-at/l	pH	NODC
		STD	0000	0633	3480	2738	0007105	0000	14761								
172		OBS	0000	0633	34804	2738			14761								
		STD	0010	0632	3480	2738	0007107	0007	14763								
		OBS	0010	0632	34804	2738			14763								
		STD	0020	0632	3480	2738	0007122	0014	14764								
005		OBS	0020	0632	34804	2738			14764								
		STD	0030	0632	3480	2738	0007136	0021	14766								
		OBS	0030	0632	34804	2738			14766								
		STD	0050	0630	3480	2738	0007141	0036	14768								
		OBS	0050	0630	34804	2738			14768								
		STD	0075	0629	3480	2738	0007165	0054	14772								
		OBS	0075	0629	34804	2738			14772								
		STD	0100	0626	3481	2739	0007156	0071	14775								
		OBS	0100	0626	34805	2739			14775								
		OBS	0124	0625	34805	2739			14779								
		STD	0125	0625	3481	2739	0007143	0089	14779								
		STD	0150	0620	3482	2741	0007019	0107	14781								
		OBS	0150	0620	34823	2741			14781								
		OBS	0190	0608	34860	2745			14783								
		STD	0200	0599	3487	2747	0006475	0141	14782								
		OBS	0200	0599	34870	2747			14782								
		OBS	0230	0556	34893	2754			14769								
		STD	0250	0551	3489	2755	0005771	0171	14771								
		OBS	0250	0551	34894	2755			14771								
		OBS	0255	0542	34895	2756			14768								
		OBS	0260	0548	34918	2757			14772								
		OBS	0285	0533	34927	2760			14770								
		OBS	0290	0524	34930	2761			14767								
		STD	0300	0529	3494	2761	0005248	0199	14771								
		OBS	0300	0529	34937	2761			14771								
		STD	0400	0480	3492	2766	0004913	0250	14767								
		OBS	0400	0480	34920	2766			14767								
		OBS	0430	0480	34930	2766			14772								
		OBS	0445	0465	34928	2768			14768								
		STD	0500	0451	3494	2770	0004544	0297	14772								
		OBS	0500	0451	34939	2770			14772								
		STD	0600	0425	3494	2773	0004339	0341	14777								
		OBS	0600	0425	34940	2773			14777								
		STD	0700	0406	3494	2775	0004233	0384	14786								
		OBS	0700	0406	34938	2775			14786								
		STD	0800	0390	3493	2776	0004193	0426	14796								
		OBS	0800	0390	34931	2776			14796								
		STD	0900	0379	3493	2777	0004177	0468	14808								
		OBS	0900	0379	34928	2777			14808								
		STD	1000	0368	3492	2778	0004194	0510	14820								
		OBS	1000	0368	34920	2778			14820								
		STD	1100	0359	3492	2779	0004150	0552	14833								
		OBS	1100	0359	34923	2779			14833								
		STD	1200	0356	3494	2780	0004078	0593	14848								
		OBS	1200	0356	34939	2780			14848								
		STD	1300	0353	3494	2781	0004101	0634	14864								
		OBS	1300	0353	34942	2781			14864								
		STD	1400	0350	3496	2782	0004049	0675	14880								
		OBS	1400	0350	34955	2782			14880								
		STD	1500	0348	3497	2784	0004008	0715	14896								
		OBS	1500	0348	34968	2784			14896								

TABLE X.—Continued

REFERENCE		SHIP CODE	LATITUDE	LONGITUDE	SQUARE	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SMPL.	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES			NODC STATION NUMBER
CTRY CODE	NO. NO.		° 1/10	° '1/10		10°	1°	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYP	AMT	
318	043	HT	52465N	03532 W		184	25	04	20	050	1968	C20	023	3302	15	34			3	X2	0	3	0023

WATER		WIND		BARO-METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. m	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
DT	SD	34	S17	119	067	056	6	30	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_4-Si µg-at/l	pH	REC. NO.
		STD	0000	0633	3482	2739	0007000	0000	14762								
	050	OBS	0000	0633	34818	2739			14762								
		STD	0010	0633	3482	2739	0007015	0007	14763								
		OBS	0010	0633	34818	2739			14763								
		STD	0020	0633	3482	2739	0007030	0014	14765								
	005	OBS	0020	0633	34818	2739			14765								
		STD	0030	0633	3482	2739	0007045	0021	14767								
		OBS	0030	0633	34818	2739			14767								
		STD	0050	0634	3482	2739	0007087	0035	14770								
		OBS	0050	0634	34818	2739			14770								
		STD	0075	0634	3482	2739	0007124	0053	14774								
		OBS	0075	0634	34818	2739			14774								
		STD	0100	0633	3482	2739	0007156	0071	14778								
		OBS	0100	0633	34817	2739			14778								
		STD	0125	0630	3481	2739	0007177	0089	14781								
		OBS	0125	0630	34814	2739			14781								
		STD	0150	0627	3488	2744	0006706	0106	14785								
		OBS	0150	0627	34877	2744			14785								
		OBS	0190	0621	34946	2750			14790								
		STD	0200	0608	3495	2752	0006023	0138	14786								
		OBS	0200	0608	34946	2752			14786								
		STD	0250	0568	3495	2757	0005592	0167	14778								
		OBS	0250	0568	34946	2757			14778								
		OBS	0265	0561	34956	2759			14778								
		STD	0300	0530	3494	2761	0005268	0194	14771								
		OBS	0300	0530	34936	2761			14771								
		OBS	0315	0518	34911	2760			14768								
		OBS	0325	0498	34901	2762			14762								
		STD	0400	0460	3490	2766	0004844	0245	14758								
		OBS	0400	0460	34898	2766			14758								
		OBS	0410	0459	34915	2768			14760								
		OBS	0415	0466	34926	2768			14764								
		STD	0500	0450	3494	2770	0004554	0292	14771								
		OBS	0500	0450	34936	2770			14771								
		STD	0600	0422	3494	2773	0004341	0336	14776								
		OBS	0600	0422	34935	2773			14776								
		STD	0700	0401	3493	2775	0004256	0379	14784								
		OBS	0700	0401	34927	2775			14784								
		STD	0800	0389	3493	2776	0004211	0421	14795								
		OBS	0800	0389	34927	2776			14795								
		STD	0900	0378	3493	2777	0004188	0463	14807								
		OBS	0900	0378	34925	2777			14807								
		STD	1000	0369	3492	2778	0004213	0505	14820								
		OBS	1000	0369	34919	2778			14820								
		STD	1100	0359	3492	2778	0004187	0547	14833								
		OBS	1100	0359	34918	2778			14833								
		STD	1200	0356	3493	2780	0004159	0589	14848								
		OBS	1200	0356	34928	2780			14848								
		STD	1300	0348	3494	2781	0004084	0630	14862								
		OBS	1300	0348	34936	2781			14862								
		STD	1400	0344	3494	2782	0004077	0671	14877								
		OBS	1400	0344	34941	2782			14877								
		STD	1500	0342	3495	2782	0004101	0712	14893								
		OBS	1500	0342	34945	2782			14893								

Table X.—Continued

REFERENCE CARD TYPE	REFERENCE ID NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	QUADRANT & BLOCK	1° SQUARE 10°	1° SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR 1/10	YEAR	ORIGINATOR'S CRUISE NO	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER.	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT.		NODC STATION NUMBER
	318043	HT	52415N	03531 W		184	25	04	20	114	1968	C20	024	3566	15	35			2	X2	0	3		0024

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP °C DRY BULB	AIR TEMP °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	34	S25	142	072	056	7	28	

MESSENGER TIME OR T HR 1/10	CAST NO	CARD TYPE	DEPTH (m)	t °C	S ‰	SIGMA-t	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta D$ DYN M x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_4-Si µg-at/l	pH	SCOR
		STD	0000	0635	3481	2738	0007100	0000	14762								
	114	OBS	0000	0635	34808	2738			14762								
		STD	0010	0635	3481	2738	0007115	0007	14764								
		OBS	0010	0635	34808	2738			14764								
		STD	0020	0635	3481	2738	0007129	0014	14766								
	002	OBS	0020	0635	34808	2738			14766								
		STD	0030	0635	3481	2738	0007144	0021	14767								
		OBS	0030	0635	34808	2738			14767								
		STD	0050	0635	3481	2738	0007174	0036	14771								
		OBS	0050	0635	34808	2738			14771								
		OBS	0060	0635	34808	2738			14772								
		STD	0075	0635	3481	2738	0007211	0054	14775								
		OBS	0075	0635	34808	2738			14775								
		STD	0100	0632	3481	2738	0007210	0072	14778								
		OBS	0100	0632	34808	2738			14778								
		STD	0125	0621	3481	2739	0007107	0090	14777								
		OBS	0125	0621	34808	2739			14777								
		STD	0150	0617	3483	2742	0006944	0107	14780								
		OBS	0150	0617	34828	2742			14780								
		STD	0200	0613	3488	2746	0006593	0141	14787								
		OBS	0200	0613	34878	2746			14787								
		OBS	0220	0582	34882	2750			14778								
		STD	0250	0543	3488	2755	0005763	0172	14767								
		OBS	0250	0543	34882	2755			14767								
		OBS	0260	0522	34882	2758			14760								
		STD	0300	0511	3488	2759	0005443	0200	14763								
		OBS	0300	0511	34882	2759			14763								
		STD	0400	0480	3491	2765	0005002	0252	14767								
		OBS	0400	0480	34908	2765			14767								
		OBS	0450	0470	34928	2767			14771								
		STD	0500	0453	3493	2769	0004649	0300	14772								
		OBS	0500	0453	34928	2769			14772								
		STD	0600	0435	3493	2771	0004544	0346	14781								
		OBS	0600	0435	34928	2771			14781								
		STD	0700	0408	3492	2773	0004404	0391	14787								
		OBS	0700	0408	34918	2773			14787								
		STD	0800	0392	3492	2775	0004313	0435	14796								
		OBS	0800	0392	34918	2775			14796								
		STD	0900	0379	3491	2776	0004325	0478	14808								
		OBS	0900	0379	34908	2776			14808								
		STD	1000	0372	3491	2776	0004330	0521	14821								
		OBS	1000	0372	34908	2776			14821								
		STD	1100	0364	3491	2777	0004320	0564	14835								
		OBS	1100	0364	34908	2777			14835								
		STD	1200	0358	3492	2779	0004257	0607	14849								
		OBS	1200	0358	34918	2779			14849								
		STD	1300	0355	3494	2780	0004155	0649	14865								
		OBS	1300	0355	34938	2780			14865								
		STD	1400	0355	3494	2780	0004236	0691	14882								
		OBS	1400	0355	34938	2780			14882								
		STD	1500	0344	3494	2782	0004177	0733	14894								
		OBS	1500	0344	34938	2782			14894								

Table X.—Continued

REFERENCE: CTM CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	QUADRANT	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT.	WAVE OBSERVATIONS: PRD.	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT		NODC STATION NUMBER
318043	HT	5245	N 03530	W		184	25	04	20	173	1968	C20	025	3603	15	33			3	X2	0	3		0025

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP °C: DRY BULB	AIR TEMP °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	32	S17	149	056	050	7	29	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-3187	Δ D DYN MT. x 10³	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_4-Si µg-at/l	pH	QUAL.
		STD	0000	0638	3480	2736	0007234	0000	14763								
173		OBS	0000	0636	34795	2736			14763								
		STD	0010	0637	3480	2737	0007222	0007	14765								
		OBS	0010	0637	34797	2737			14765								
		STD	0020	0637	3480	2737	0007229	0014	14766								
005		OBS	0020	0637	34798	2737			14766								
		STD	0030	0637	3480	2737	0007244	0022	14768								
		OBS	0030	0637	34798	2737			14768								
		STD	0050	0634	3480	2737	0007236	0036	14770								
		OBS	0050	0634	34798	2737			14770								
		STD	0075	0633	3480	2737	0007260	0054	14774								
		OBS	0075	0633	34798	2737			14774								
		STD	0100	0631	3480	2737	0007264	0072	14777								
		OBS	0100	0631	34799	2737			14777								
		STD	0125	0628	3480	2738	0007256	0091	14780								
		OBS	0125	0628	34800	2738			14780								
		OBS	0140	0614	34822	2742			14777								
		STD	0150	0613	3485	2743	0006767	0108	14779								
		OBS	0150	0613	34845	2743			14779								
		OBS	0165	0611	34850	2744			14780								
		OBS	0175	0591	34850	2747			14774								
		OBS	0190	0589	34899	2751			14776								
		STD	0200	0581	3490	2752	0006050	0140	14775								
		OBS	0200	0581	34897	2752			14775								
		STD	0250	0533	3489	2757	0005598	0169	14763								
		OBS	0250	0533	34888	2757			14763								
		OBS	0270	0529	34889	2757			14765								
		STD	0300	0500	3488	2760	0005336	0197	14758								
		OBS	0300	0500	34879	2760			14758								
		STD	0400	0459	3489	2765	0004907	0248	14758								
		OBS	0400	0459	34888	2765			14758								
		STD	0500	0438	3490	2769	0004691	0296	14766								
		OBS	0500	0438	34899	2769			14766								
		STD	0600	0425	3491	2771	0004577	0342	14777								
		OBS	0600	0425	34908	2771			14777								
		STD	0700	0406	3491	2773	0004463	0387	14786								
		OBS	0700	0406	34907	2773			14786								
		STD	0800	0392	3490	2774	0004446	0432	14796								
		OBS	0800	0392	34900	2774			14796								
		STD	0900	0378	3490	2775	0004373	0476	14807								
		OBS	0900	0378	34900	2775			14807								
		STD	1000	0369	3491	2777	0004302	0519	14820								
		OBS	1000	0369	34907	2777			14820								
		STD	1100	0361	3491	2778	0004277	0562	14833								
		OBS	1100	0361	34909	2778			14833								
		STD	1200	0357	3492	2779	0004216	0605	14849								
		OBS	1200	0357	34922	2779			14849								
		STD	1300	0352	3492	2779	0004236	0647	14863								
		OBS	1300	0352	34922	2779			14863								
		STD	1400	0348	3492	2780	0004252	0689	14878								
		OBS	1400	0348	34924	2780			14878								
		STD	1500	0346	3493	2781	0004276	0732	14894								
		OBS	1500	0346	34928	2781			14894								

TABLE X.—Continued

REFERENCE CTW CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	QUAD BOUNDARIES	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR 1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'G	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER.	WAVE OBSERVATIONS STA.	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318043		HT	5242 N	035165W	D	184	25	04	20	233	1968	C20	026	3383	15	33			3	X2	0	3		0026

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VOL. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	33	S20	152	061	044	7	25	

MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10⁸	Σ Δ D DYN. M. x 10⁵	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₃-N µg-at/l	NO₂-N µg-at/l	SiO₄-Si µg-at/l	pH	TCC
		STD	0000	0637	3483	2739	0006975	0000	14763								
233		OBS	0000	0637	34828	2739			14763								
		STD	0010	0637	3483	2739	0006990	0007	14765								
		OBS	0010	0637	34828	2739			14765								
		STD	0020	0637	3483	2739	0007005	0014	14767								
005		OBS	0020	0637	34828	2739			14767								
		STD	0030	0637	3483	2739	0007005	0021	14768								
		OBS	0030	0637	34830	2739			14768								
		STD	0050	0637	3483	2739	0007020	0035	14772								
		OBS	0050	0637	34832	2739			14772								
		STD	0075	0637	3483	2739	0007050	0053	14776								
		OBS	0075	0637	34833	2739			14776								
		STD	0100	0631	3484	2741	0006959	0070	14778								
		OBS	0100	0631	34840	2741			14778								
		STD	0125	0627	3485	2742	0006908	0087	14780								
		STD	0150	0623	3485	2743	0006856	0105	14783								
		OBS	0150	0623	34850	2743			14783								
		STD	0200	0615	3494	2751	0006156	0137	14789								
		OBS	0200	0615	34940	2751			14789								
		OBS	0240	0565	34920	2755			14775								
		STD	0250	0570	3493	2755	0005773	0167	14779								
		OBS	0250	0570	34925	2755			14779								
		OBS	0270	0536	34940	2761			14769								
		STD	0300	0505	3492	2763	0005089	0194	14761								
		OBS	0300	0505	34920	2763			14761								
		STD	0400	0477	3494	2768	0004699	0243	14766								
		OBS	0400	0477	34944	2768			14766								
		STD	0500	0452	3496	2772	0004399	0289	14772								
		OBS	0500	0452	34960	2772			14772								
		STD	0600	0427	3496	2775	0004213	0332	14778								
		OBS	0600	0427	34960	2775			14778								
		STD	0700	0408	3496	2777	0004092	0373	14787								
		OBS	0700	0408	34960	2777			14787								
		STD	0800	0390	3496	2779	0003978	0414	14796								
		OBS	0800	0390	34960	2779			14796								
		STD	0900	0379	3496	2780	0003940	0453	14808								
		OBS	0900	0379	34960	2780			14808								
		STD	1000	0369	3496	2781	0003910	0492	14821								
		OBS	1000	0369	34960	2781			14821								
		STD	1100	0362	3496	2781	0003913	0531	14834								
		OBS	1100	0362	34960	2781			14834								
		STD	1200	0358	3496	2782	0003948	0571	14850								
		OBS	1200	0358	34960	2782			14850								
		STD	1300	0354	3498	2784	0003834	0610	14865								
		OBS	1300	0354	34980	2784			14865								
		STD	1400	0347	3499	2785	0003755	0648	14879								
		OBS	1400	0347	34990	2785			14879								
		STD	1500	0340	3501	2788	0003599	0684	14893								
		OBS	1500	0340	35010	2788			14893								

TABLE X.—Continued

REFERENCE: CITY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	QUAD	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR. 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT.	WAVE OBSERVATIONS: PER.	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYP.	CLOUD CODES: AMT.		NODC STATION NUMBER
318043		HT	5255 N	03550 W	D	184	25	04	21	052	1968	C20	027	3199	15	31			2	X2	0	3		0027

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	30	S20	139	056	050	7	31	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10⁸	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	
		STD	0000	0628	3481	2739	0006982	0000	14760								
	052	OBS	0000	0628	34812	2739			14760								
		STD	0010	0628	3481	2739	0006997	0007	14761								
		OBS	0010	0628	34812	2739			14761								
		STD	0020	0628	3481	2739	0007012	0014	14763								
	004	OBS	0020	0628	34812	2739			14763								
		STD	0030	0629	3481	2739	0007039	0021	14765								
		OBS	0030	0629	34812	2739			14765								
		STD	0050	0629	3481	2739	0007069	0035	14768								
		OBS	0050	0629	34812	2739			14768								
		STD	0075	0630	3481	2739	0007118	0053	14773								
		OBS	0075	0630	34812	2739			14773								
		STD	0100	0634	3483	2740	0007071	0071	14779								
		OBS	0100	0634	34830	2740			14779								
		STD	0125	0634	3485	2741	0006959	0088	14783								
		OBS	0125	0634	34850	2741			14783								
		OBS	0140	0633	34890	2744			14786								
		STD	0150	0632	3492	2747	0006464	0105	14787								
		OBS	0150	0632	34918	2747			14787								
		OBS	0160	0628	34918	2747			14787								
		STD	0200	0629	3495	2749	0006299	0137	14795								
		OBS	0200	0629	34945	2749			14795								
		STD	0250	0629	3496	2751	0006239	0168	14803								
		OBS	0250	0629	34963	2751			14803								
		STD	0300	0572	3496	2758	0005612	0198	14788								
		OBS	0300	0572	34959	2758			14788								
		OBS	0370	0524	34949	2763			14780								
		OBS	0380	0506	34937	2764			14774								
		STD	0400	0501	3494	2765	0005012	0251	14776								
		OBS	0400	0501	34940	2765			14776								
		OBS	0410	0486	34930	2766			14771								
		OBS	0425	0484	34948	2767			14773								
		OBS	0435	0470	34930	2768			14769								
		STD	0500	0459	3494	2770	0004637	0299	14775								
		OBS	0500	0459	34939	2770			14775								
		STD	0600	0433	3494	2772	0004439	0345	14781								
		OBS	0600	0433	34939	2772			14781								
		STD	0700	0409	3493	2774	0004327	0388	14787								
		OBS	0700	0409	34930	2774			14787								
		STD	0800	0391	3492	2775	0004279	0431	14796								
		OBS	0800	0391	34921	2775			14796								
		STD	0900	0379	3492	2777	0004236	0474	14808								
		OBS	0900	0379	34920	2777			14808								
		STD	1000	0370	3493	2778	0004166	0516	14821								
		OBS	1000	0370	34927	2778			14821								
		STD	1100	0364	3493	2779	0004180	0558	14835								
		OBS	1100	0364	34927	2779			14835								
		STD	1200	0356	3493	2780	0004145	0599	14848								
		OBS	1200	0356	34930	2780			14848								
		STD	1300	0351	3494	2781	0004106	0641	14863								
		OBS	1300	0351	34938	2781			14863								
		STD	1400	0347	3494	2781	0004114	0682	14878								
		OBS	1400	0347	34941	2781			14878								
		STD	1500	0347	3495	2782	0004127	0723	14895								
		OBS	1500	0347	34950	2782			14895								

TABLE X.—Continued

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPE SQUARE	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR. 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'NG	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT.	WAVE OBSERVATIONS: PER.	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYP	CLOUD CODES: AMT		MODC STATION NUMBER
31	8043	MT	5248 N	03542 W	0	184	25	04	21	117	1968	C20	028	3292	15	33			2	X2	0	3		0028

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	33	S11	159	044	028	7	32	

MESSENGR. Fund = NR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^8	$\frac{1}{2}\Delta D$ DYN. M. $\Sigma 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_4-Si µg-at/l	pH	CODE
		STD	0000	0636	3482	2738	0007023	0000	14763								
	114	OBS	0000	0636	34820	2738			14763								
		STD	0010	0636	3482	2738	0007038	0007	14765								
		OBS	0010	0636	34820	2738			14765								
		STD	0020	0636	3482	2738	0007052	0014	14766								
	004	OBS	0020	0636	34820	2738			14766								
		STD	0030	0636	3482	2738	0007067	0021	14768								
		OBS	0030	0636	34820	2738			14768								
		STD	0050	0636	3483	2739	0007060	0035	14771								
		OBS	0050	0636	34825	2739			14771								
		STD	0075	0636	3483	2739	0007097	0053	14775								
		OBS	0075	0636	34825	2739			14775								
		STD	0100	0635	3483	2739	0007121	0071	14779								
		OBS	0100	0635	34825	2739			14779								
		STD	0125	0628	3483	2740	0007032	0088	14780								
		OBS	0125	0628	34830	2740			14780								
		STD	0150	0625	3485	2742	0006881	0106	14784								
		OBS	0150	0625	34850	2742			14784								
		STD	0200	0617	3489	2746	0006554	0139	14789								
		OBS	0200	0617	34890	2746			14789								
		OBS	0215	0613	34894	2747			14790								
		OBS	0225	0622	34950	2751			14796								
		STD	0250	0615	3497	2753	0006006	0171	14798								
		OBS	0250	0615	34970	2753			14798								
		OBS	0270	0607	34992	2756			14798								
		STD	0300	0567	3496	2758	0005542	0200	14786								
		OBS	0300	0567	34960	2758			14786								
		OBS	0315	0549	34934	2759			14781								
		OBS	0330	0549	34960	2761			14784								
		OBS	0365	0487	34900	2763			14764								
		STD	0400	0474	3490	2765	0004992	0252	14764								
		OBS	0400	0474	34900	2765			14764								
		OBS	0420	0472	34900	2765			14767								
		OBS	0460	0472	34932	2767			14774								
		STD	0500	0459	3493	2769	0004704	0301	14775								
		OBS	0500	0459	34930	2769			14775								
		STD	0600	0435	3493	2771	0004529	0347	14781								
		OBS	0600	0435	34930	2771			14781								
		STD	0700	0412	3493	2774	0004361	0391	14788								
		OBS	0700	0412	34930	2774			14788								
		STD	0800	0393	3493	2776	0004235	0434	14797								
		OBS	0800	0393	34930	2776			14797								
		STD	0900	0379	3493	2777	0004162	0476	14808								
		OBS	0900	0379	34930	2777			14808								
		STD	1000	0367	3493	2779	0004109	0518	14819								
		OBS	1000	0367	34930	2779			14819								
		STD	1100	0359	3493	2779	0004098	0559	14833								
		OBS	1100	0359	34930	2779			14833								
		STD	1200	0355	3493	2780	0004132	0600	14848								
		OBS	1200	0355	34930	2780			14848								
		STD	1300	0350	3493	2781	0004123	0641	14863								
		OBS	1300	0350	34934	2781			14863								
		STD	1400	0345	3495	2782	0004045	0682	14877								
		OBS	1400	0345	34947	2782			14877								
		STD	1500	0340	3495	2783	0004039	0722	14892								
		OBS	1500	0340	34950	2783			14892								

TABLE X.—Continued

REFERENCE: CTRY CODE	REFERENCE: NO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	QUAD SQUARE	1° SQUARE	STATION TIME (GMT): MO	DAY	HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE 1/10	WAVE OBSERVATIONS: DIR.	HGT	PER	SEA	WEATHER CODE	CLOUD CODES: TYP	CLOUD CODES: AMT		NODC STATION NUMBER
	318043	HT	5241 N	03532 W		184	25	04	21	172	1968	C20	029	3658	15	34			2	X1	0	3		0029

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	34	S17	166	056	028	7	30	

MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^5	$\Sigma\Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_4-Si µg-at/l	pH	SIGNIFICANT LEVEL
		STD	0000	0637	3481	2738	0007102	0000	14763								
172		OBS	0000	0637	34811	2738			14763								
		STD	0010	0636	3481	2738	0007097	0007	14764								
		OBS	0010	0636	34812	2738			14764								
		STD	0020	0635	3481	2738	0007100	0014	14766								
005		OBS	0020	0635	34812	2738			14766								
		STD	0030	0633	3481	2738	0007089	0021	14767								
		OBS	0030	0633	34812	2738			14767								
		STD	0050	0632	3481	2738	0007106	0035	14769								
		OBS	0050	0632	34812	2738			14769								
		STD	0075	0631	3481	2739	0007116	0053	14773								
		OBS	0075	0631	34814	2739			14773								
		STD	0100	0626	3481	2739	0007089	0071	14775								
		OBS	0100	0626	34814	2739			14775								
		STD	0125	0623	3482	2740	0007028	0089	14778								
		OBS	0125	0623	34822	2740			14778								
		STD	0150	0620	3483	2741	0006974	0106	14781								
		OBS	0150	0620	34829	2741			14781								
		OBS	0160	0615	34830	2742			14781								
		STD	0200	0618	3488	2745	0006679	0140	14789								
		OBS	0200	0618	34875	2745			14789								
		OBS	0220	0593	34902	2751			14783								
		OBS	0240	0591	34928	2753			14786								
		STD	0250	0572	3492	2754	0005865	0172	14780								
		OBS	0250	0572	34916	2754			14780								
		OBS	0270	0525	34856	2755			14763								
		OBS	0275	0528	34913	2759			14766								
		STD	0300	0519	3492	2761	0005240	0199	14766								
		OBS	0300	0519	34922	2761			14766								
		OBS	0310	0510	34910	2761			14764								
		STD	0400	0470	3491	2766	0004841	0250	14763								
		OBS	0400	0470	34914	2766			14763								
		STD	0500	0446	3494	2771	0004508	0297	14769								
		OBS	0500	0446	34936	2771			14769								
		STD	0600	0424	3493	2773	0004379	0341	14777								
		OBS	0600	0424	34933	2773			14777								
		STD	0700	0404	3493	2775	0004254	0384	14785								
		OBS	0700	0404	34932	2775			14785								
		STD	0800	0387	3491	2775	0004284	0427	14794								
		OBS	0800	0387	34914	2775			14794								
		STD	0900	0377	3491	2776	0004257	0470	14807								
		OBS	0900	0377	34914	2776			14807								
		STD	1000	0364	3491	2778	0004199	0512	14818								
		OBS	1000	0364	34913	2778			14818								
		STD	1100	0357	3491	2778	0004192	0554	14832								
		OBS	1100	0357	34914	2778			14832								
		STD	1200	0354	3492	2779	0004172	0596	14847								
		OBS	1200	0354	34923	2779			14847								
		STD	1300	0351	3493	2780	0004143	0637	14863								
		OBS	1300	0351	34933	2780			14863								
		STD	1400	0347	3494	2782	0004100	0678	14878								
		OBS	1400	0347	34943	2782			14878								
		STD	1500	0344	3494	2782	0004133	0720	14894								
		OBS	1500	0344	34944	2782			14894								

TABLE X.—Continued

REFERENCE: CTRY CODE	REFERENCE: NO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	QUAD NO.	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPLG	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYP	CLOUD CODES: AMT		NODC STATION NUMBER
318043		HT	5245 N	03530 W		184	25	04	21	237	1968	C20	030	3383	15	01	3	2		X2	0	3		0030

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	33	S10	186	050	033	7	27	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta D$ DYN. M. $\times 10^2$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	
		STD	0000	0634	3480	2737	0007184	0000	14762								
233		OBS	0000	0634	34795	2737			14762								
		STD	0010	0634	3480	2737	0007199	0007	14763								
		OBS	0010	0634	34795	2737			14763								
		STD	0020	0634	3480	2737	0007214	0014	14765								
004		OBS	0020	0634	34795	2737			14765								
		STD	0030	0634	3480	2737	0007229	0022	14767								
		OBS	0030	0634	34795	2737			14767								
		STD	0050	0634	3480	2737	0007258	0036	14770								
		OBS	0050	0634	34795	2737			14770								
		STD	0075	0634	3480	2737	0007295	0054	14774								
		OBS	0075	0634	34795	2737			14774								
		STD	0100	0633	3483	2739	0007096	0072	14778								
		OBS	0100	0633	34825	2739			14778								
		OBS	0115	0631	34825	2740			14780								
		STD	0125	0628	3485	2742	0006890	0090	14781								
		OBS	0125	0628	34849	2742			14781								
		STD	0150	0628	3489	2745	0006659	0107	14785								
		OBS	0150	0628	34885	2745			14785								
		OBS	0190	0615	34945	2751			14787								
		STD	0200	0614	3495	2751	0006106	0139	14789								
		OBS	0200	0614	34945	2751			14789								
		STD	0250	0573	3495	2756	0005661	0168	14780								
		OBS	0250	0573	34945	2756			14780								
		OBS	0260	0568	34945	2757			14780								
		STD	0300	0502	3490	2761	0005240	0195	14759								
		OBS	0300	0502	34895	2761			14759								
		STD	0400	0460	3491	2767	0004792	0245	14758								
		OBS	0400	0460	34905	2767			14758								
		STD	0500	0431	3491	2770	0004566	0292	14763								
		OBS	0500	0431	34905	2770			14763								
		STD	0600	0421	3493	2773	0004404	0337	14775								
		OBS	0600	0421	34925	2773			14775								
		STD	0700	0402	3493	2775	0004283	0381	14784								
		OBS	0700	0402	34925	2775			14784								
		STD	0800	0392	3493	2776	0004261	0423	14797								
		OBS	0800	0392	34925	2776			14797								
		STD	0900	0379	3493	2777	0004199	0466	14808								
		OBS	0900	0379	34925	2777			14808								
		STD	1000	0367	3493	2778	0004145	0507	14819								
		OBS	1000	0367	34925	2778			14819								
		STD	1100	0364	3493	2779	0004195	0549	14835								
		OBS	1100	0364	34925	2779			14835								
		STD	1200	0353	3494	2780	0004071	0590	14847								
		OBS	1200	0353	34935	2780			14847								
		STD	1300	0347	3495	2782	0004005	0631	14861								
		OBS	1300	0347	34945	2782			14861								
		STD	1400	0342	3495	2782	0004023	0671	14876								
		OBS	1400	0342	34945	2782			14876								
		STD	1500	0339	3496	2783	0003989	0711	14892								
		OBS	1500	0339	34955	2783			14892								

Table X.—Continued

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	QUADRANT	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR. 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT.	WAVE OBSERVATIONS: PER.	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYP	CLOUD CODES: AMT		NODC STATION NUMBER
318043	HT	5248 N	03531 W		184	25	04	22	114	1968	C20	031		3199	15	29	2	2		X2	0	3		0031

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OF FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	23	S09	149	056	028	7	30	

MESSENGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S °/₀₀	SIGMA-T	SPECIFIC VOLUME ANOMALY-10⁸	ΔD DYN. M. X 10⁵	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	NOTE
		STD	0000	0639	3480	2736	0007247	0000	14764								
	114	OBS	0000	0639	34795	2736			14764								
		STD	0010	0639	3480	2736	0007262	0007	14765								
		OBS	0010	0639	34795	2736			14765								
		STD	0020	0639	3480	2736	0007277	0015	14767								
	005	OBS	0020	0639	34795	2736			14767								
		STD	0030	0639	3480	2736	0007292	0022	14769								
		OBS	0030	0639	34795	2736			14769								
		STD	0050	0639	3480	2736	0007322	0036	14772								
		OBS	0050	0639	34795	2736			14772								
		OBS	0060	0639	34795	2736			14774								
		STD	0075	0636	3483	2739	0007097	0054	14775								
		OBS	0075	0636	34825	2739			14775								
		STD	0100	0628	3483	2740	0006980	0072	14776								
		OBS	0100	0628	34832	2740			14776								
		STD	0125	0621	3491	2747	0006384	0089	14779								
		OBS	0125	0621	34905	2747			14779								
		STD	0150	0628	3493	2748	0006361	0105	14786								
		OBS	0150	0628	34925	2748			14786								
		STD	0200	0631	3496	2750	0006220	0136	14796								
		OBS	0200	0631	34959	2750			14796								
		STD	0250	0591	3496	2755	0005812	0166	14788								
		OBS	0250	0591	34955	2755			14788								
		STD	0300	0552	3495	2759	0005468	0194	14780								
		OBS	0300	0552	34945	2759			14780								
		OBS	0350	0517	34945	2763			14774								
		STD	0400	0482	3492	2765	0004958	0247	14768								
		OBS	0400	0482	34917	2765			14768								
		OBS	0450	0450	34900	2767			14762								
		STD	0500	0437	3491	2770	0004605	0294	14765								
		OBS	0500	0437	34909	2770			14765								
		STD	0600	0423	3492	2772	0004487	0340	14776								
		OBS	0600	0423	34917	2772			14776								
		STD	0700	0410	3493	2774	0004375	0384	14787								
		OBS	0700	0410	34925	2774			14787								
		OBS	0710	0410	34930	2774			14789								
		OBS	0720	0399	34910	2774			14786								
		OBS	0730	0400	34925	2775			14788								
		STD	0800	0390	3492	2775	0004297	0427	14796								
		OBS	0800	0390	34917	2775			14796								
		STD	0900	0373	3492	2777	0004188	0470	14805								
		OBS	0900	0373	34917	2777			14805								
		STD	1000	0367	3492	2778	0004205	0512	14819								
		OBS	1000	0367	34917	2778			14819								
		STD	1100	0356	3492	2779	0004158	0554	14831								
		OBS	1100	0356	34917	2779			14831								
		STD	1200	0352	3492	2779	0004192	0595	14846								
		OBS	1200	0352	34917	2779			14846								
		STD	1300	0350	3493	2780	0004189	0637	14862								
		OBS	1300	0350	34925	2780			14862								
		STD	1400	0346	3493	2781	0004183	0679	14878								
		OBS	1400	0346	34930	2781			14878								
		STD	1500	0343	3494	2781	0004187	0721	14893								
		OBS	1500	0343	34935	2781			14893								

TABLE X.—Continued

REFERENCE CSTP CODE	REFERENCE IO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR.1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
	318043	HT	5244 N	03536 W	184	25	04	22	177	1968	C20	032	3622	15	29			1	X2	0	3		0032

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	25	S03	122	050	038	6	24	

MESSENGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY—10^7	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4–P µg-at/l	TOTAL–P µg-at/l	NO_3–N µg-at/l	NO_2–N µg-at/l	$Si\,O_4$–Si µg-at/l	pH	QUAL
		STD	0000	0647	3482	2737	0007154	0000	14767								
	177	OBS	0000	0647	34821	2737			14767								
		STD	0010	0646	3482	2737	0007141	0007	14769								
		OBS	0010	0646	34823	2737			14769								
		STD	0020	0646	3483	2738	0007104	0014	14770								
	005	OBS	0020	0646	34830	2738			14770								
		STD	0030	0646	3483	2738	0007119	0021	14772								
		OBS	0030	0646	34830	2738			14772								
		STD	0050	0634	3484	2740	0006923	0035	14771								
		OBS	0050	0634	34840	2740			14771								
		STD	0075	0612	3488	2746	0006385	0052	14766								
		OBS	0075	0612	34880	2746			14766								
		STD	0100	0579	3484	2747	0006313	0068	14757								
		OBS	0100	0579	34840	2747			14757								
		STD	0125	0588	3486	2748	0006308	0084	14765								
		OBS	0125	0588	34860	2748			14765								
		STD	0150	0601	3489	2749	0006281	0099	14774								
		OBS	0150	0601	34890	2749			14774								
		STD	0200	0579	3496	2757	0005555	0129	14775								
		OBS	0200	0579	34960	2757			14775								
		STD	0250	0517	3491	2761	0005229	0156	14757								
		OBS	0250	0517	34912	2761			14757								
		STD	0300	0492	3491	2763	0005012	0182	14755								
		OBS	0300	0492	34910	2763			14755								
		STD	0400	0469	3493	2768	0004680	0230	14762								
		OBS	0400	0469	34934	2768			14762								
		STD	0500	0439	3494	2772	0004397	0275	14767								
		OBS	0500	0439	34940	2772			14767								
		STD	0600	0421	3494	2774	0004300	0319	14776								
		OBS	0600	0421	34939	2774			14776								
		STD	0700	0404	3494	2775	0004224	0362	14785								
		OBS	0700	0404	34936	2775			14785								
		STD	0800	0387	3493	2777	0004158	0403	14795								
		OBS	0800	0387	34931	2777			14795								
		STD	0900	0374	3492	2777	0004215	0445	14806								
		OBS	0900	0374	34915	2777			14806								
		STD	1000	0363	3492	2778	0004172	0487	14818								
		OBS	1000	0363	34915	2778			14818								
		STD	1100	0357	3492	2779	0004148	0529	14832								
		OBS	1100	0357	34920	2779			14832								
		STD	1200	0355	3492	2779	0004199	0571	14848								
		OBS	1200	0355	34921	2779			14848								
		STD	1300	0351	3493	2780	0004143	0612	14863								
		OBS	1300	0351	34933	2780			14863								
		STD	1400	0349	3494	2781	0004147	0654	14879								
		OBS	1400	0349	34940	2781			14879								
		STD	1500	0345	3494	2782	0004175	0695	14894								
		OBS	1500	0345	34940	2782			14894								

TABLE X.—Continued

REFERENCE: CSTY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	QUADRANT	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR.1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT.	WAVE OBSERVATIONS: PER.	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYP.	CLOUD CODES: AMT.		NODC STATION NUMBER
318043	HT	5247	N	03527	W	184	25	04	23	000	1968	C20	033	3402	15	00	0	X		X2	0	3		0033

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	05	S07	090	044	039	6	27	

MESSENGER TIME (HR 1/10)	CAST NO	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-STP	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	REC.
		STD	0000	0646	3476	2732	0007596	0000	14766								
	000	OBS	0000	0646	34760	2732			14766								
		STD	0010	0646	3476	2732	0007612	0008	14768								
		OBS	0010	0646	34760	2732			14768								
		STD	0020	0644	3476	2733	0007571	0015	14769								
	004	OBS	0020	0644	34764	2733			14769								
		STD	0030	0639	3476	2734	0007523	0023	14768								
		OBS	0030	0639	34764	2734			14768								
		STD	0050	0639	3478	2735	0007433	0038	14772								
		OBS	0050	0639	34780	2735			14772								
		STD	0075	0635	3484	2740	0007010	0056	14775								
		OBS	0075	0635	34835	2740			14775								
		STD	0100	0631	3485	2741	0006921	0073	14778								
		OBS	0100	0631	34845	2741			14778								
		OBS	0112	0631	34845	2741			14780								
		STD	0125	0619	3484	2742	0006843	0090	14777								
		STD	0150	0594	3483	2745	0006641	0107	14771								
		OBS	0150	0594	34830	2745			14771								
		OBS	0160	0583	34850	2748			14768								
		OBS	0180	0583	34890	2751			14772								
		STD	0200	0578	3496	2757	0005543	0138	14774								
		OBS	0200	0578	34960	2757			14774								
		STD	0250	0563	3495	2758	0005500	0165	14776								
		OBS	0250	0563	34950	2758			14776								
		STD	0300	0527	3495	2762	0005127	0192	14770								
		OBS	0300	0527	34950	2762			14770								
		OBS	0350	0490	34925	2765			14763								
		STD	0400	0474	3493	2767	0004805	0242	14764								
		OBS	0400	0474	34925	2767			14764								
		STD	0500	0446	3494	2771	0004515	0288	14769								
		OBS	0500	0446	34935	2771			14769								
		STD	0600	0426	3494	2773	0004388	0333	14778								
		OBS	0600	0426	34935	2773			14778								
		STD	0700	0403	3493	2774	0004294	0376	14785								
		OBS	0700	0403	34925	2774			14785								
		STD	0800	0386	3494	2777	0004117	0418	14794								
		OBS	0800	0386	34935	2777			14794								
		STD	0900	0383	3495	2778	0004098	0459	14810								
		OBS	0900	0383	34945	2778			14810								
		STD	1000	0374	3495	2779	0004081	0500	14823								
		OBS	1000	0374	34945	2779			14823								
		STD	1100	0363	3495	2780	0004020	0541	14835								
		OBS	1100	0363	34947	2780			14835								
		STD	1200	0358	3496	2781	0003985	0581	14849								
		OBS	1200	0358	34955	2781			14849								
		STD	1300	0356	3496	2782	0004006	0621	14865								
		OBS	1300	0356	34960	2782			14865								
		STD	1400	0350	3496	2783	0004012	0661	14880								
		OBS	1400	0350	34960	2783			14880								
		STD	1500	0344	3496	2783	0004016	0701	14894								
		OBS	1500	0344	34960	2783			14894								

TABLE X.—Continued

REFERENCE CTRY CODE	REFERENCE NO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	QUAD	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR. 1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		STATION NUMBER
318	043	HT	5245 N	03530 W		184	25	04	23	051	1968	C20	034	3603	15	00	0	X		X6	0	3		0034

WATER COLOR CODE	WATER TRANS. mi	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	07	S14	051	044	044	6	35	

MESSENGER TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_4-Si µg-at/l	pH	
		STD	0000	0635	3480	2737	0007130	0000	14762								
051		OBS	0000	0635	34804	2737			14762								
		STD	0010	0635	3480	2737	0007144	0007	14764								
		OBS	0010	0635	34804	2737			14764								
		STD	0020	0634	3481	2738	0007087	0014	14765								
		OBS	0020	0634	34812	2738			14765								
		STD	0030	0633	3481	2738	0007074	0021	14767								
		OBS	0030	0633	34814	2738			14767								
		STD	0050	0632	3482	2739	0007032	0035	14770								
		OBS	0050	0632	34822	2739			14770								
		STD	0075	0632	3482	2739	0007069	0053	14774								
		OBS	0075	0632	34822	2739			14774								
		STD	0100	0630	3483	2740	0007021	0071	14777								
		OBS	0100	0630	34830	2740			14777								
		STD	0125	0630	3484	2741	0006998	0088	14781								
		OBS	0125	0630	34838	2741			14781								
		OBS	0130	0630	34838	2741			14782								
		STD	0150	0615	3484	2743	0006837	0105	14779								
		OBS	0150	0615	34839	2743			14779								
		OBS	0165	0615	34878	2746			14782								
		OBS	0175	0603	34897	2749			14779								
		OBS	0180	0606	34898	2749			14781								
		OBS	0190	0589	34912	2752			14776								
		STD	0200	0588	3493	2753	0005913	0137	14778								
		OBS	0200	0588	34927	2753			14778								
		OBS	0205	0579	34929	2754			14775								
		OBS	0230	0572	34958	2758			14777								
		STD	0250	0541	3492	2759	0005434	0166	14767								
		OBS	0250	0541	34923	2759			14767								
		OBS	0280	0531	34929	2760			14768								
		STD	0300	0519	3493	2762	0005188	0192	14766								
		OBS	0300	0519	34929	2762			14766								
		OBS	0315	0515	34927	2762			14767								
		OBS	0350	0486	34930	2766			14761								
		OBS	0380	0488	34937	2766			14767								
		STD	0400	0479	3494	2767	0004774	0242	14767								
		OBS	0400	0479	34937	2767			14767								
		STD	0500	0454	3495	2771	0004534	0289	14773								
		OBS	0500	0454	34945	2771			14773								
		STD	0600	0430	3495	2773	0004360	0333	14779								
		OBS	0600	0430	34945	2773			14779								
		STD	0700	0406	3494	2775	0004233	0376	14786								
		OBS	0700	0406	34938	2775			14786								
		STD	0800	0389	3493	2777	0004159	0418	14795								
		OBS	0800	0389	34934	2777			14795								
		STD	0900	0381	3493	2777	0004171	0460	14809								
		OBS	0900	0381	34932	2777			14809								
		STD	1000	0368	3493	2778	0004128	0501	14820								
		OBS	1000	0368	34929	2778			14820								
		STD	1100	0360	3493	2779	0004117	0542	14833								
		OBS	1100	0360	34929	2779			14833								
		STD	1200	0355	3493	2780	0004110	0584	14848								
		OBS	1200	0355	34933	2780			14848								
		STD	1300	0351	3494	2781	0004077	0624	14863								
		OBS	1300	0351	34942	2781			14863								
		STD	1400	0346	3495	2782	0004058	0665	14878								
		OBS	1400	0346	34947	2782			14878								
		STD	1500	0344	3495	2782	0004097	0706	14894								
		OBS	1500	0344	34949	2782			14894								

TABLE X.—Continued

REFERENCE: CSBY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	QUAD	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR.1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT.	WAVE OBSERVATIONS: PER.	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT		NODC STATION NUMBER
	318043	HT	5240 N	035385W		184	25	04	23	125	1968	C20	035	3383	15	06			2	X6	0	3		0035

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP °C: DRY BULB	AIR TEMP °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	07	S25	959	067	061		25	

MESSENGE TIME OF T HR 1/10	CAST NO	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta D$ DYN. M. $\Sigma 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4–P µg-at/l	TOTAL–P µg-at/l	NO_3–N µg-at/l	NO_2–N µg-at/l	SiO_4–Si µg-at/l	pH	SCC
		STD	0000	0634	3476	2734	0007423	0000	14761								
	125	OBS	0000	0634	34763	2734			14761								
		STD	0010	0633	3476	2734	0007426	0007	14763								
		OBS	0010	0633	34763	2734			14763								
		STD	0020	0628	3477	2736	0007311	0015	14762								
	005	OBS	0020	0628	34772	2736			14762								
		STD	0030	0627	3478	2736	0007275	0022	14764								
		OBS	0030	0627	34777	2736			14764								
		STD	0050	0605	3476	2738	0007136	0036	14758								
		OBS	0050	0605	34763	2738			14758								
		STD	0075	0589	3476	2740	0006975	0054	14756								
		OBS	0075	0589	34763	2740			14756								
		OBS	0090	0587	34778	2741			14757								
		STD	0100	0590	3478	2741	0006880	0071	14760								
		OBS	0100	0590	34782	2741			14760								
		STD	0125	0606	3482	2742	0006845	0089	14771								
		OBS	0125	0606	34818	2742			14771								
		STD	0150	0625	3486	2743	0006785	0106	14784								
		OBS	0150	0625	34863	2743			14784								
		STD	0200	0603	3495	2753	0005907	0137	14784								
		OBS	0200	0603	34953	2753			14784								
		STD	0250	0568	3497	2759	0005391	0166	14779								
		OBS	0250	0568	34973	2759			14779								
		STD	0300	0507	3493	2763	0005053	0192	14761								
		OBS	0300	0507	34928	2763			14761								
		STD	0400	0472	3493	2767	0004737	0241	14764								
		OBS	0400	0472	34931	2767			14764								
		STD	0500	0435	3492	2771	0004478	0287	14765								
		OBS	0500	0435	34923	2771			14765								
		STD	0600	0421	3493	2773	0004345	0331	14776								
		OBS	0600	0421	34933	2773			14776								
		STD	0700	0397	3492	2775	0004240	0374	14782								
		OBS	0700	0397	34923	2775			14782								
		STD	0800	0380	3492	2777	0004137	0416	14791								
		OBS	0800	0380	34923	2777			14791								
		STD	0900	0379	3492	2777	0004214	0457	14808								
		OBS	0900	0379	34923	2777			14808								
		STD	1000	0369	3492	2778	0004184	0499	14820								
		OBS	1000	0369	34923	2778			14820								
		STD	1100	0361	3492	2779	0004174	0541	14834								
		OBS	1100	0361	34923	2779			14834								
		STD	1200	0356	3492	2779	0004196	0583	14848								
		OBS	1200	0356	34923	2779			14848								
		STD	1300	0353	3494	2780	0004145	0625	14864								
		OBS	1300	0353	34936	2780			14864								
		STD	1400	0347	3494	2781	0004151	0666	14878								
		OBS	1400	0347	34936	2781			14878								
		STD	1500	0342	3494	2782	0004115	0708	14893								
		OBS	1500	0342	34943	2782			14893								

TABLE X.—Continued

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° '1/10	DUPLICATE	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR.1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'G	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT.	WAVE OBSERVATIONS: PER.	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYP.	CLOUD CODES: AMT.		NODC STATION NUMBER
31	8043	HT	52435N	03527 W		184	25	04	25	233	1968	C20	036	3383	15	02	4	2		X2	0	3		0036

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP °C: DRY BULB	AIR TEMP °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	36	S27	081	072	061	7	30	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta D$ DYN. M. $\Sigma 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	QUALITY CODE
		STD	0000	0633	3469	2728	0007993	0000	14760								
233		OBS	0000	0633	34685	2728			14760								
		STD	0010	0633	3469	2728	0008008	0008	14762								
		OBS	0010	0633	34685	2728			14762								
		STD	0020	0633	3469	2728	0008023	0016	14763								
005		OBS	0020	0633	34685	2728			14763								
		STD	0030	0633	3469	2728	0008037	0024	14765								
		OBS	0030	0633	34685	2728			14765								
		STD	0050	0633	3469	2728	0008044	0040	14768								
		OBS	0050	0633	34688	2728			14768								
		STD	0075	0633	3469	2729	0008066	0060	14772								
		OBS	0075	0633	34690	2729			14772								
		STD	0100	0609	3479	2739	0007092	0079	14768								
		OBS	0100	0609	34785	2739			14768								
		OBS	0110	0609	34845	2744			14770								
		STD	0125	0613	3486	2744	0006656	0096	14775								
		OBS	0125	0613	34855	2744			14775								
		STD	0150	0613	3488	2746	0006543	0113	14779								
		OBS	0150	0613	34875	2746			14779								
		OBS	0175	0621	34905	2747			14787								
		OBS	0190	0609	34918	2750			14785								
		STD	0200	0613	3494	2751	0006168	0145	14788								
		OBS	0200	0613	34935	2751			14788								
		OBS	0225	0627	34965	2751			14798								
		STD	0250	0610	3499	2755	0005830	0175	14796								
		OBS	0250	0610	34985	2755			14796								
		OBS	0290	0603	35015	2758			14800								
		STD	0300	0590	3503	2761	0005348	0203	14796								
		OBS	0300	0590	35025	2761			14796								
		STD	0400	0492	3494	2765	0004942	0254	14772								
		OBS	0400	0492	34935	2765			14772								
		OBS	0420	0502	34975	2767			14780								
		STD	0500	0461	3497	2771	0004467	0301	14776								
		OBS	0500	0461	34965	2771			14776								
		STD	0600	0427	3496	2774	0004251	0345	14778								
		OBS	0600	0427	34955	2774			14778								
		STD	0700	0401	3495	2776	0004123	0387	14784								
		OBS	0700	0401	34945	2776			14784								
		STD	0800	0390	3495	2777	0004089	0428	14796								
		OBS	0800	0390	34945	2777			14796								
		STD	0900	0379	3494	2778	0004125	0469	14808								
		OBS	0900	0379	34935	2778			14808								
		STD	1000	0369	3494	2779	0004095	0510	14820								
		OBS	1000	0369	34935	2779			14820								
		STD	1100	0358	3493	2779	0004123	0551	14832								
		OBS	1100	0358	34925	2779			14832								
		STD	1200	0357	3494	2780	0004120	0592	14849								
		OBS	1200	0357	34935	2780			14849								
		STD	1300	0353	3495	2781	0004079	0633	14864								
		OBS	1300	0353	34945	2781			14864								
		STD	1400	0347	3495	2782	0004056	0674	14878								
		OBS	1400	0347	34949	2782			14878								
		STD	1500	0345	3496	2783	0004065	0714	14894								
		OBS	1500	0345	34955	2783			14894								

TABLE X.—Continued

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPE INDICATOR	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR, 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYP	CLOUD CODES: AMT		NODC STATION NUMBER
318	043	HT	5249	N 03524	W	184	25	04	26	113	1968	C20	037	3302	15	35	3	3		X2	0	3		0037

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	33	S18	108	067	056	7	29	

MESSENGER TIME (HR 1/10)	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta D$ DYN. DIST. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	QUAL CODE
		STD	0000	0644	3474	2731	0007750	0000	14765								
	113	OBS	0000	0644	34736	2731			14765								
		STD	0010	0644	3474	2731	0007765	0008	14767								
		OBS	0010	0644	34736	2731			14767								
		STD	0020	0644	3474	2731	0007780	0016	14768								
	006	OBS	0020	0644	34736	2731			14768								
		STD	0030	0644	3474	2731	0007795	0023	14770								
		OBS	0030	0644	34736	2731			14770								
		STD	0050	0644	3474	2731	0007825	0039	14773								
		OBS	0050	0644	34736	2731			14773								
		OBS	0070	0644	34796	2736			14777								
		STD	0075	0632	3483	2739	0007039	0058	14774								
		OBS	0075	0632	34826	2739			14774								
		STD	0100	0628	3482	2740	0007070	0075	14776								
		OBS	0100	0628	34820	2740			14776								
		STD	0125	0627	3485	2742	0006900	0093	14780								
		OBS	0125	0627	34846	2742			14780								
		OBS	0145	0597	34848	2746			14771								
		STD	0150	0603	3487	2747	0006455	0109	14775								
		OBS	0150	0603	34870	2747			14775								
		OBS	0170	0607	34946	2752			14781								
		OBS	0190	0591	34946	2754			14778								
		STD	0200	0600	3497	2755	0005773	0140	14783								
		OBS	0200	0600	34966	2755			14783								
		STD	0250	0569	3494	2756	0005679	0169	14779								
		OBS	0250	0569	34936	2756			14779								
		STD	0300	0521	3494	2762	0005160	0196	14767								
		OBS	0300	0521	34936	2762			14767								
		STD	0400	0480	3493	2766	0004868	0246	14767								
		OBS	0400	0480	34926	2766			14767								
		STD	0500	0441	3492	2770	0004599	0293	14767								
		OBS	0500	0441	34916	2770			14767								
		STD	0600	0420	3492	2772	0004430	0338	14775								
		OBS	0600	0420	34920	2772			14775								
		OBS	0650	0404	34900	2772			14776								
		STD	0700	0394	3492	2775	0004258	0382	14781								
		OBS	0700	0394	34916	2775			14781								
		STD	0800	0381	3492	2776	0004200	0424	14792								
		OBS	0800	0381	34916	2776			14792								
		STD	0900	0371	3492	2777	0004173	0466	14804								
		OBS	0900	0371	34916	2777			14804								
		STD	1000	0367	3492	2777	0004212	0508	14819								
		OBS	1000	0367	34916	2777			14819								
		STD	1100	0358	3492	2778	0004189	0550	14832								
		OBS	1100	0358	34916	2778			14832								
		STD	1200	0356	3493	2780	0004145	0591	14848								
		OBS	1200	0356	34930	2780			14848								
		STD	1300	0352	3494	2781	0004133	0633	14863								
		OBS	1300	0352	34936	2781			14863								
		STD	1400	0347	3494	2781	0004151	0674	14878								
		OBS	1400	0347	34936	2781			14878								
		STD	1500	0345	3495	2782	0004131	0716	14894								
		OBS	1500	0345	34946	2782			14894								

TABLE X.—Continued

REFERENCE: CSTY CODE	REFERENCE: NO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPLICATE	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR.1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'G	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT.	WAVE OBSERVATIONS: PER.	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYP.	CLOUD CODES: AMT.		NODC STATION NUMBER
31	8043	HT	5240 N	03522 W		184	25	04	26	172	1968	C20	038	3475	15	31			2	X2	0	3		0038

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	32	S17	115	067	056	7	34	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10⁸	∑ Δ D DYN. M. Σ 10⁵	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	SECCHI
		STD	0000	0644	3473	2730	0007795	0000	14765								
172		OBS	0000	0644	34730	2730			14765								
		STD	0010	0643	3473	2730	0007798	0008	14766								
		OBS	0010	0643	34730	2730			14766								
		STD	0020	0643	3473	2731	0007805	0016	14768								
005		OBS	0020	0643	34731	2731			14768								
		STD	0030	0643	3473	2731	0007812	0023	14769								
		OBS	0030	0643	34732	2731			14769								
		STD	0050	0642	3474	2732	0007748	0039	14772								
		OBS	0050	0642	34743	2732			14772								
		OBS	0055	0641	34743	2732			14773								
		OBS	0065	0624	34733	2733			14768								
		STD	0075	0605	3478	2739	0007045	0057	14762								
		OBS	0080	0601	34803	2742			14762								
		STD	0100	0618	3488	2746	0006474	0074	14773								
		OBS	0100	0618	34883	2746			14773								
		STD	0125	0622	3490	2746	0006471	0091	14779								
		OBS	0125	0622	34895	2746			14779								
		STD	0150	0620	3490	2747	0006416	0107	14782								
		OBS	0150	0620	34904	2747			14782								
		OBS	0175	0621	34915	2748			14787								
		OBS	0185	0616	34985	2754			14787								
		STD	0200	0624	3500	2754	0005825	0137	14793								
		OBS	0210	0625	35003	2754			14795								
		OBS	0230	0618	35002	2755			14796								
		OBS	0240	0602	34994	2757			14791								
		STD	0250	0601	3499	2757	0005648	0166	14792								
		OBS	0250	0601	34994	2757			14792								
		STD	0300	0579	3499	2759	0005499	0194	14792								
		OBS	0300	0579	34986	2759			14792								
		OBS	0370	0516	34909	2761			14776								
		OBS	0380	0485	34933	2766			14766								
		STD	0400	0488	3494	2766	0004858	0246	14770								
		OBS	0400	0488	34940	2766			14770								
		OBS	0415	0496	34953	2766			14776								
		OBS	0450	0470	34958	2770			14771								
		STD	0500	0435	3492	2770	0004530	0293	14765								
		OBS	0500	0435	34916	2770			14765								
		STD	0600	0422	3494	2774	0004289	0337	14776								
		OBS	0600	0422	34942	2774			14776								
		STD	0700	0408	3494	2775	0004241	0379	14787								
		OBS	0700	0408	34940	2775			14787								
		STD	0800	0393	3495	2777	0004124	0421	14797								
		OBS	0800	0393	34945	2777			14797								
		STD	0900	0374	3493	2778	0004082	0462	14806								
		OBS	0900	0374	34933	2778			14806								
		STD	1000	0363	3493	2779	0004039	0503	14818								
		OBS	1000	0363	34933	2779			14818								
		STD	1100	0357	3493	2780	0004052	0543	14832								
		OBS	1100	0357	34933	2780			14832								
		STD	1200	0353	3494	2781	0004027	0584	14847								
		OBS	1200	0353	34941	2781			14847								
		STD	1300	0351	3495	2781	0004055	0624	14863								
		OBS	1300	0351	34945	2781			14863								
		STD	1400	0349	3495	2782	0004058	0665	14879								
		OBS	1400	0349	34952	2782			14879								
		STD	1500	0345	3495	2783	0004087	0705	14894								
		OBS	1500	0345	34952	2783			14894								

TABLE X.—Continued

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	BLOCK	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PRD	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT		NODC STATION NUMBER
318043	HT	5247 N	03534 W		184	25	04	26	231	1968	C20	039		3584	15	29			2	X2	0	3		0039

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	31	S18	135	050	033	7	28	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta D$ DYN. M $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	QUAL
		STD	0000	0643	3472	2730	0007857	0000	14764								
231		OBS	0000	0643	34720	2730			14764								
		STD	0010	0643	3472	2730	0007872	0008	14766								
		OBS	0010	0643	34720	2730			14766								
		STD	0020	0643	3472	2730	0007887	0016	14768								
005		OBS	0020	0643	34720	2730			14768								
		STD	0030	0643	3472	2730	0007902	0024	14769								
		OBS	0030	0643	34720	2730			14769								
		STD	0050	0643	3472	2730	0007932	0039	14773								
		OBS	0050	0643	34720	2730			14773								
		STD	0075	0643	3472	2730	0007969	0059	14777								
		OBS	0075	0643	34720	2730			14777								
		STD	0100	0612	3479	2739	0007093	0078	14769								
		OBS	0100	0612	34790	2739			14769								
		OBS	0110	0611	34820	2742			14771								
		STD	0125	0607	3483	2743	0006782	0096	14772								
		OBS	0125	0607	34828	2743			14772								
		OBS	0140	0604	34830	2743			14773								
		STD	0150	0613	3487	2745	0006580	0112	14779								
		OBS	0150	0613	34870	2745			14779								
		OBS	0160	0604	34850	2745			14777								
		STD	0200	0631	3494	2749	0006362	0145	14795								
		OBS	0200	0631	34940	2749			14795								
		OBS	0222	0582	34880	2750			14779								
		STD	0250	0607	3499	2756	0005754	0175	14795								
		OBS	0250	0607	34990	2756			14795								
		STD	0300	0551	3495	2760	0005419	0203	14780								
		OBS	0300	0551	34950	2760			14780								
		STD	0400	0495	3494	2765	0004941	0255	14773								
		OBS	0400	0495	34940	2765			14773								
		STD	0500	0449	3492	2769	0004662	0303	14770								
		OBS	0500	0449	34920	2769			14770								
		STD	0600	0422	3492	2772	0004453	0348	14776								
		OBS	0600	0422	34920	2772			14776								
		STD	0700	0405	3492	2774	0004355	0392	14785								
		OBS	0700	0405	34920	2774			14785								
		STD	0800	0390	3491	2775	0004319	0436	14796								
		OBS	0800	0390	34914	2775			14796								
		STD	0900	0377	3491	2776	0004272	0479	14807								
		OBS	0900	0377	34912	2776			14807								
		STD	1000	0368	3491	2777	0004239	0521	14820								
		OBS	1000	0368	34914	2777			14820								
		STD	1100	0366	3491	2777	0004300	0564	14836								
		OBS	1100	0366	34914	2777			14836								
		STD	1200	0357	3492	2779	0004230	0606	14849								
		OBS	1200	0357	34920	2779			14849								
		STD	1300	0355	3493	2780	0004221	0649	14865								
		OBS	1300	0355	34929	2780			14865								
		STD	1400	0351	3493	2780	0004245	0691	14880								
		OBS	1400	0351	34930	2780			14880								
		STD	1500	0347	3494	2781	0004200	0733	14895								
		OBS	1500	0347	34940	2781			14895								

TABLE X.—Continued

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	QUAD	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT		NODC STATION NUMBER
31	8043	HT	52415N	03518 W	D	18	25	04	27	172	1968	C20	040	3292	15	33			7	X1	0	3		0040

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	33	S24	195	078	050	7	26	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10⁷	DYN. DEPTH Δ D DYN. MT. Σ (10⁴)	SOUND VELOCITY	O_2 ml/l	PO_4–P µg-at/l	TOTAL–P µg-at/l	NO_3–N µg-at/l	NO_2–N µg-at/l	SiO_4–Si µg-at/l	pH	
		STD	0000	0642	3472	2730	0007830	0000	14764								
172		OBS	0000	0642	34722	2730			14764								
		STD	0010	0642	3472	2730	0007845	0008	14766								
		OBS	0010	0642	34722	2730			14766								
		STD	0020	0642	3472	2730	0007860	0016	14767								
005		OBS	0020	0642	34722	2730			14767								
		STD	0030	0643	3472	2730	0007895	0024	14769								
		OBS	0030	0643	34721	2730			14769								
		STD	0050	0640	3473	2731	0007804	0039	14772								
		OBS	0050	0640	34732	2731			14772								
		OBS	0060	0637	34732	2731			14772								
		STD	0075	0615	3476	2736	0007340	0058	14766								
		OBS	0075	0615	34757	2736			14766								
		OBS	0090	0605	34797	2741			14765								
		STD	0100	0610	3481	2741	0006889	0076	14769								
		OBS	0100	0610	34814	2741			14769								
		STD	0125	0608	3485	2744	0006668	0093	14773								
		OBS	0125	0608	34845	2744			14773								
		STD	0150	0612	3488	2746	0006516	0109	14779								
		OBS	0150	0612	34877	2746			14779								
		STD	0200	0628	3495	2750	0006271	0141	14794								
		OBS	0200	0628	34947	2750			14794								
		STD	0250	0621	3500	2754	0005882	0172	14800								
		OBS	0250	0621	34997	2754			14800								
		STD	0300	0574	3500	2760	0005354	0200	14790								
		OBS	0300	0574	34997	2760			14790								
		STD	0400	0480	3497	2769	0004563	0249	14767								
		OBS	0400	0480	34967	2769			14767								
		STD	0500	0436	3493	2771	0004452	0295	14765								
		OBS	0500	0436	34928	2771			14765								
		STD	0600	0417	3494	2774	0004284	0338	14774								
		OBS	0600	0417	34935	2774			14774								
		STD	0700	0399	3492	2774	0004300	0381	14783								
		OBS	0700	0399	34918	2774			14783								
		STD	0800	0383	3491	2775	0004268	0424	14793								
		OBS	0800	0383	34910	2775			14793								
		STD	0900	0375	3491	2776	0004301	0467	14806								
		OBS	0900	0375	34905	2776			14806								
		STD	1000	0366	3491	2777	0004281	0510	14819								
		OBS	1000	0366	34905	2777			14819								
		STD	1100	0363	3491	2778	0004279	0552	14834								
		OBS	1100	0363	34912	2778			14834								
		STD	1200	0357	3492	2779	0004252	0595	14849								
		OBS	1200	0357	34917	2779			14849								
		STD	1300	0355	3492	2779	0004265	0638	14865								
		OBS	1300	0355	34923	2779			14865								
		STD	1400	0352	3493	2780	0004257	0680	14880								
		OBS	1400	0352	34930	2780			14880								
		STD	1500	0349	3493	2780	0004299	0723	14896								
		OBS	1500	0349	34930	2780			14896								

TABLE X.—Continued

REFERENCE CTRY CODE	REFERENCE ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPLICATE	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO.	STATION TIME (GMT) DAY	STATION TIME (GMT) HR. 1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL.	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER.	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYP.	CLOUD CODES AMT.	NODC STATION NUMBER
31	8043	MT	5236 N	03527 W		184	25	04	27	232	1968	C20	041	2963	15	33			5	X1	0	3	0041

WATER COLOR CODE	WIND TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C DRY BULB	AIR TEMP. °C WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	34	S13	230	056	033	7	30	

MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH m	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^5	$\Sigma\Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_4-Si µg-at/l	pH	QUAL.
		STD	0000	0647	3476	2732	0007594	0000	14767								
	232	OBS	0000	0647	34762	2732			14767								
		STD	0010	0647	3476	2732	0007609	0008	14768								
		OBS	0010	0647	34762	2732			14768								
		STD	0020	0647	3476	2732	0007624	0015	14770								
	005	OBS	0020	0647	34762	2732			14770								
		STD	0030	0647	3476	2732	0007639	0023	14771								
		OBS	0030	0647	34762	2732			14771								
		STD	0050	0647	3476	2732	0007669	0038	14775								
		OBS	0050	0647	34762	2732			14775								
		OBS	0065	0626	34768	2736			14769								
		STD	0075	0619	3481	2740	0007032	0057	14768								
		OBS	0075	0619	34805	2740			14768								
		OBS	0080	0615	34830	2742			14768								
		STD	0100	0616	3485	2744	0006673	0074	14772								
		OBS	0100	0616	34853	2744			14772								
		OBS	0115	0605	34825	2743			14769								
		STD	0125	0619	3488	2745	0006545	0090	14777								
		OBS	0125	0619	34880	2745			14777								
		STD	0150	0623	3491	2747	0006409	0106	14784								
		OBS	0150	0623	34910	2747			14784								
		OBS	0170	0603	34920	2751			14779								
		OBS	0190	0629													
		STD	0200	0623	3492	2748	0006400	0138	14792								
		OBS	0200	0623													
		OBS	0245	0643													
		STD	0250	0640	3492	2746	0006672	0171	14807								
		OBS	0250	0640													
		STD	0300	0549	3493	2758	0005573	0202	14779								
		OBS	0300	0549													
		STD	0400	0490	3493	2765	0004956	0254	14771								
		OBS	0400	0490													
		STD	0500	0443	3494	2771	0004481	0302	14768								
		OBS	0500	0443	34935	2771			14768								
		STD	0600	0426	3494	2773	0004336	0346	14778								
		OBS	0600	0426	34942	2773			14778								
		STD	0700	0410	3493	2774	0004323	0389	14788								
		OBS	0700	0410	34932	2774			14788								
		STD	0800	0386	3491	2775	0004273	0432	14794								
		OBS	0800	0386	34914	2775			14794								
		STD	0900	0374	3491	2776	0004245	0474	14805								
		OBS	0900	0374	34911	2776			14805								
		STD	1000	0369	3491	2777	0004280	0517	14820								
		OBS	1000	0369	34910	2777			14820								
		STD	1100	0358	3491	2778	0004211	0560	14832								
		OBS	1100	0358	34913	2778			14832								
		STD	1200	0354	3492	2779	0004209	0602	14847								
		OBS	1200	0354	34918	2779			14847								
		STD	1300	0353	3493	2780	0004189	0644	14864								
		OBS	1300	0353	34930	2780			14864								
		STD	1400	0350	3493	2781	0004210	0686	14879								
		OBS	1400	0350	34933	2781			14879								
		STD	1500	0346	3494	2781	0004224	0728	14895								
		OBS	1500	0346	34935	2781			14895								

TABLE X.—Continued

REFERENCE: CTRY CODE	REFERENCE: ID NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT.	WAVE OBSERVATIONS: PER.	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT.		NODC STATION NUMBER
318043	HT	5237 N	03536 W		184	25	04	28	056	1968	C20	042		3383	15	32			3	X1	0	3		0042

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP °C: DRY BULB	AIR TEMP °C: WET BULB	VIS CODE	NO. OBS DEPTHS	SPECIAL OBSERVATIONS
DT	SD	31	S13	245	050	033	7	30	

MESSENGR TIME OF HR 1/10	CAST NO	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta D$ DYN. M x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	TOC
		STD	0000	0647	3476	2733	0007579	0000	14767								
	056	OBS	0000	0647	34764	2733			14767								
		STD	0010	0647	3476	2733	0007594	0008	14768								
		OBS	0010	0647	34764	2733			14768								
		STD	0020	0647	3476	2733	0007609	0015	14770								
	005	OBS	0020	0647	34764	2733			14770								
		STD	0030	0647	3477	2733	0007617	0023	14771								
		OBS	0030	0647	34765	2733			14771								
		STD	0050	0647	3477	2733	0007647	0038	14775								
		OBS	0050	0647	34765	2733			14775								
		OBS	0060	0647	34767	2733			14776								
		OBS	0070	0643	34769	2734			14776								
		STD	0075	0641	3481	2737	0007310	0057	14777								
		OBS	0075	0641	34805	2737			14777								
		OBS	0080	0624	34804	2739			14771								
		STD	0100	0611	3481	2741	0006908	0075	14769								
		OBS	0100	0611	34813	2741			14769								
		STD	0125	0602	3482	2743	0006817	0092	14770								
		OBS	0125	0602	34815	2743			14770								
		STD	0150	0618	3488	2745	0006606	0108	14781								
		OBS	0150	0618	34875	2745			14781								
		STD	0200	0627	3497	2751	0006124	0140	14794								
		OBS	0200	0627	34965	2751			14794								
		STD	0250	0611	3499	2755	0005835	0170	14796								
		OBS	0250	0611	34986	2755			14796								
		OBS	0280	0601	34984	2756			14797								
		STD	0300	0578	3498	2758	0005553	0199	14791								
		OBS	0300	0578	34977	2758			14791								
		OBS	0320	0547	34975	2762			14782								
		STD	0400	0509	3497	2766	0004907	0251	14779								
		OBS	0400	0509	34967	2766			14779								
		OBS	0450	0468	34928	2768			14770								
		STD	0500	0460	3493	2769	0004686	0299	14775								
		OBS	0500	0460	34934	2769			14775								
		STD	0600	0423	3494	2773	0004353	0344	14776								
		OBS	0600	0423	34935	2773			14776								
		STD	0700	0405	3492	2774	0004362	0388	14785								
		OBS	0700	0405	34919	2774			14785								
		STD	0800	0391	3490	2774	0004419	0432	14796								
		OBS	0800	0391	34902	2774			14796								
		STD	0900	0378	3490	2775	0004373	0476	14807								
		OBS	0900	0378	34900	2775			14807								
		STD	1000	0367	3490	2776	0004352	0519	14819								
		OBS	1000	0367	34897	2776			14819								
		STD	1100	0357	3490	2777	0004310	0563	14832								
		OBS	1100	0357	34898	2777			14832								
		STD	1200	0353	3490	2778	0004322	0606	14847								
		OBS	1200	0353	34901	2778			14847								
		STD	1300	0350	3491	2779	0004270	0649	14862								
		OBS	1300	0350	34914	2779			14862								
		STD	1400	0344	3492	2780	0004231	0691	14877								
		OBS	1400	0344	34920	2780			14877								
		STD	1500	0344	3493	2781	0004221	0733	14894								
		OBS	1500	0344	34932	2781			14894								

Table X.—Continued

COUNTRY CODE	CRUISE NUMBER	SHIP CODE	LATITUDE	LONGITUDE	DUPLICATION	MARSDEN SQUARE	STATION TIME (G.m.t.)	YEAR	ORIGINATOR'S CRUISE NUMBER	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. SAMPLE / S.W.P.	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT.	WAVE OBSERVATIONS PER.	WAVE OBSERVATIONS MEAN HGT.	WEATHER CODE	SWELL TYPE	SWELL DIR.	NODC STATION NUMBER
31	8043	4T	52455N	03505W		184 25	04 28	113	1969	C20 043		3613		02	4	3		X1	0	3		0043

*DT WATER COLOR	*S_0 TRANS. in	WIND DIR.	WIND SPEED OR FORCE	BAROMETER	AIR TEMPERATURE °C DRY BULB	AIR TEMPERATURE °C WET BULB	VIS. CODE	NUMBER OBS. LEVELS	SPECIAL OBSERVATIONS
SD	28	S10	254	056	033	7			

CAST — TIME DURATION HR.	CAST — TIME DURATION MIN.	CAST NO.	CARD TYPE	DEPTH in	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY - 1 M^3	DYN. DEPTH M^2	COMPUTED SOUND VELOCITY	O_2	*AMBIENT LIGHT	*MEASURED SOUND VELOCITY
			STD	0000	0639	3473	2731	0007736	0000	14763			
113			OBS	0000	0639	34730	2731			14763			
			STD	0010	0639	3473	2731	0007751	0007	14765			
			OBS	0010	0639	34730	2731			14765			
			STD	0020	0639	3473	2731	0007765	0015	14766			
005			OBS	0020	0639	34730	2731			14766			
			STD	0030	0639	3473	2731	0007780	0023	14768			
			OBS	0030	0639	34730	2731	-		14768			
			STD	0050	0639	3473	2731	0007792	0038	14771			
			OBS	0050	0639	34733	2731			14771			
			STD	0075	0642	3475	2732	0007739	0058	14777			
			OBS	0075	0642	34750	2732			14777			
			STD	0100	0617	3476	2736	0007382	0077	14771			
			OBS	0100	0617	34760	2736			14771			
			OBS	0105	0607	34830	2743			14769			
			STD	0125	0615	3484	2743	0006769	0094	14775			
			OBS	0125	0615	34844	2743			14775			
			STD	0150	0617	3486	2744	0006706	0111	14780			
			OBS	0150	0617	34860	2744			14780			
			STD	0200	0629	3492	2748	0006459	0144	14794			
			OBS	0200	0629	34924	2748			14794			
			OBS	0210	0627	34950	2750			14796			
			OBS	0218	0637	35020	2754			14802			
			STD	0250	0609	3498	2755	0005856	0175	14795			
			OBS	0250	0609	34980	2755			14795			
			OBS	0280	0570	34944	2757			14784			
			OBS	0290	0585	34990	2758			14792			
			STD	0300	0583	3499	2759	0005523	0203	14793			
			OBS	0300	0583	34990	2759			14793			
			OBS	0370	0488	34920	2765			14765			
			STD	0400	0497	3494	2765	0004970	0256	14774			
			OBS	0400	0497	34940	2765			14774			
			STD	0500	0459	3493	2769	0004710	0304	14775			
			OBS	0500	0459	34929	2769			14775			
			STD	0600	0421	3492	2772	0004442	0350	14775			
			OBS	0600	0421	34920	2772			14775			
			STD	0700	0403	3492	2774	0004333	0394	14784			
			OBS	0700	0403	34920	2774			14784			
			STD	0800	0383	3492	2776	0004192	0437	14793			
			OBS	0800	0383	34920	2776			14793			
			STD	0900	0370	3491	2777	0004165	0478	14804			
			OBS	0900	0370	34915	2777			14804			
			STD	1000	0366	3492	2778	0004170	0520	14819			
			OBS	1000	0366	34920	2778			14819			
			STD	1100	0359	3492	2779	0004174	0562	14833			
			OBS	1100	0359	34920	2779			14833			
			STD	1200	0356	3493	2780	0004141	0603	14848			
			OBS	1200	0356	34930	2780			14848			
			STD	1300	0352	3496	2782	0003981	0644	14864			
			OBS	1300	0352	34956	2782			14864			
			STD	1400	0347	3498	2785	0003825	0683	14879			
			OBS	1400	0347	34980	2785			14879			
			STD	1500	0345	3498	2785	0003879	0721	14895			
			OBS	1500	0345	34980	2785			14895			

Table X.—Continued

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	QUAD	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYP	CLOUD CODES: AMT		NODC STATION NUMBER
318043	HT	5244 N	03522 W		184	25	04	28	175	1968	C20	044		3566	15	36			3	X2	0	3		0044

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP °C: DRY BULB	AIR TEMP °C: WET BULB	VIS. CODE	NO. OBS DEPTHS	SPECIAL OBSERVATIONS
DT	SD	27	S06	247	061	044	7	31	

MESSENGR TIME HR 1/10	CAST NO	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^5	$\Sigma\Delta D$ DYN M $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	QCC
		STD	0000	0684	3478	2728	0007972	0000	14781								
175		OBS	0000	0684	34775	2728			14781								
		STD	0010	0661	3478	2732	0007690	0008	14774								
		OBS	0010	0661	34775	2732			14774								
		STD	0020	0659	3478	2732	0007680	0016	14775								
004		OBS	0020	0659	34775	2732			14775								
		STD	0030	0658	3478	2732	0007683	0023	14776								
		OBS	0030	0659	34775	2732			14776								
		STD	0050	0659	3478	2732	0007666	0039	14780								
		OBS	0050	0659	34783	2732			14780								
		OBS	0060	0656	34788	2733			14780								
		STD	0075	0626	3480	2738	0007180	0057	14771								
		OBS	0075	0626	34797	2738			14771								
		STD	0100	0626	3483	2740	0007007	0075	14775								
		OBS	0100	0626	34825	2740			14775								
		STD	0125	0610	3482	2742	0006850	0092	14773								
		OBS	0125	0610	34824	2742			14773								
		STD	0150	0609	3485	2744	0006687	0109	14777								
		OBS	0150	0609	34849	2744			14777								
		OBS	0170	0617	34926	2749			14785								
		STD	0200	0603	3495	2753	0005945	0141	14784								
		OBS	0200	0603	34948	2753			14784								
		OBS	0220	0588	34955	2755			14782								
		OBS	0235	0591	34975	2757			14786								
		STD	0250	0564	3495	2758	0005550	0169	14777								
		OBS	0250	0564	34945	2758			14777								
		STD	0300	0536	3494	2760	0005348	0197	14773								
		OBS	0300	0536	34935	2760			14773								
		OBS	0390	0480	34905	2764			14765								
		STD	0400	0482	3491	2764	0005025	0249	14767								
		OBS	0400	0482	34908	2764			14767								
		OBS	0450	0463	34935	2769			14768								
		OBS	0465	0442	34907	2769			14762								
		STD	0500	0439	3491	2769	0004643	0297	14766								
		OBS	0500	0439	34907	2769			14766								
		STD	0600	0416	3492	2773	0004391	0342	14773								
		OBS	0600	0416	34919	2773			14773								
		STD	0700	0400	3492	2774	0004312	0386	14783								
		OBS	0700	0400	34918	2774			14783								
		STD	0800	0389	3493	2776	0004211	0428	14795								
		OBS	0800	0389	34927	2776			14795								
		STD	0900	0375	3492	2777	0004190	0470	14806								
		OBS	0900	0375	34920	2777			14806								
		STD	1000	0366	3492	2778	0004171	0512	14819								
		OBS	1000	0366	34920	2778			14819								
		STD	1100	0361	3493	2779	0004122	0553	14834								
		OBS	1100	0361	34930	2779			14834								
		STD	1200	0354	3493	2780	0004106	0595	14847								
		OBS	1200	0354	34932	2780			14847								
		STD	1300	0351	3494	2781	0004099	0636	14863								
		OBS	1300	0351	34939	2781			14863								
		STD	1400	0346	3495	2782	0004036	0676	14878								
		OBS	1400	0346	34950	2782			14878								
		STD	1500	0341	3495	2783	0004029	0717	14893								
		OBS	1500	0341	34953	2783			14893								

TABLE X.—Continued

REFERENCE: CITE CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPE DECK	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'G	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT		NODC STATION NUMBER
318043	HT	5243 N	03523 W		184	25	04	28	238	1968	C20	045		3658	15	35			2	X2	0	3		0045

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	22	S09	254	072	056	7	30	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	CODE
		STD	0000	0656	3478	2733	0007559	0000	14770								
	238	OBS	0000	0656	34782	2733			14770								
		STD	0010	0656	3478	2733	0007574	0008	14772								
		OBS	0010	0656	34782	2733			14772								
		STD	0020	0663	3478	2732	0007679	0015	14776								
	005	OBS	0020	0663	34782	2732			14776								
		STD	0030	0659	3478	2732	0007643	0023	14776								
		OBS	0030	0659	34782	2732			14776								
		STD	0050	0655	3478	2733	0007623	0038	14778								
		OBS	0050	0655	34782	2733			14778								
		STD	0075	0650	3478	2734	0007596	0057	14780								
		OBS	0075	0650	34782	2734			14780								
		OBS	0090	0612	34812	2741			14768								
		STD	0100	0611	3482	2742	0006841	0075	14769								
		OBS	0100	0611	34822	2742			14769								
		STD	0125	0613	3486	2745	0006619	0092	14775								
		OBS	0125	0613	34860	2745			14775								
		STD	0150	0623	3490	2747	0006469	0108	14783								
		OBS	0150	0623	34902	2747			14783								
		STD	0200	0623	3494	2750	0006244	0140	14792								
		OBS	0200	0623	34942	2750			14792								
		OBS	0210	0613	34972	2753			14790								
		OBS	0220	0613	34972	2753			14792								
		STD	0250	0633	3506	2758	0005555	0170	14806								
		OBS	0250	0633	35062	2758			14806								
		OBS	0260	0633	35062	2758			14808								
		OBS	0270	0595	35022	2760			14794								
		STD	0300	0566	3500	2762	0005217	0197	14787								
		OBS	0300	0566	35002	2762			14787								
		OBS	0360	0535	34982	2764			14784								
		STD	0400	0512	3498	2767	0004832	0247	14781								
		OBS	0400	0512	34982	2767			14781								
		STD	0500	0466	3497	2771	0004474	0293	14778								
		OBS	0500	0466	34972	2771			14778								
		STD	0600	0430	3496	2775	0004233	0337	14780								
		OBS	0600	0430	34962	2775			14780								
		STD	0700	0405	3494	2776	0004191	0379	14786								
		OBS	0700	0405	34942	2776			14786								
		STD	0800	0390	3494	2777	0004111	0421	14796								
		OBS	0800	0390	34942	2777			14796								
		STD	0900	0375	3493	2778	0004101	0462	14806								
		OBS	0900	0375	34932	2778			14806								
		STD	1000	0366	3494	2779	0004060	0502	14819								
		OBS	1000	0366	34935	2779			14819								
		STD	1100	0359	3494	2780	0004046	0543	14833								
		OBS	1100	0359	34937	2780			14833								
		STD	1200	0358	3494	2780	0004080	0584	14849								
		OBS	1200	0358	34942	2780			14849								
		STD	1300	0356	3495	2781	0004079	0624	14865								
		OBS	1300	0356	34950	2781			14865								
		STD	1400	0352	3496	2782	0004037	0665	14881								
		OBS	1400	0352	34960	2782			14881								
		STD	1500	0347	3496	2783	0004039	0705	14895								
		OBS	1500	0347	34962	2783			14895								

TABLE X.—Continued

REFERENCE: CTW CODE	REFERENCE: NO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPE SQUARE	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR. 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF S'AM'PL'G	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT.	WAVE OBSERVATIONS: PER.	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYP.	CLOUD CODES: AMT.		NODC STATION NUMBER
	318043	MT	5242 N	03529 W		184	25	04	29	052	1968	C20	046	3475	15	00	0	X		X0	0	3		0046

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	29	S07	228	072	067	6	35	

MESSENGE TIME ME 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10⁸	∑ Δ D DYN. M. Σ 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₂-N µg-at/l	NO₃-N µg-at/l	SiO₄-Si µg-at/l	pH	OBS
		STD	0000	0665	3474	2729	0007958	0000	14773								
052		OBS	0000	0665	34744	2729			14773								
		STD	0010	0652	3474	2730	0007837	0008	14770								
		OBS	0010	0652	34740	2730			14770								
005		OBS	0015	0643	34733	2731			14767								
		STD	0020	0642	3473	2731	0007777	0016	14767								
		OBS	0020	0642	34733	2731			14767								
		STD	0030	0642	3473	2731	0007792	0023	14769								
		OBS	0030	0642	34733	2731			14769								
		STD	0050	0644	3474	2731	0007773	0039	14773								
		OBS	0050	0644	34743	2731			14773								
		OBS	0060	0645	34757	2732			14775								
		STD	0075	0633	3483	2739	0007052	0058	14774								
		OBS	0075	0633	34826	2739			14774								
		OBS	0080	0628	34816	2739			14773								
		STD	0100	0616	3484	2742	0006792	0075	14772								
		OBS	0100	0616	34837	2742			14772								
		OBS	0115	0616	34839	2743			14774								
		STD	0125	0623	3489	2746	0006499	0092	14779								
		OBS	0125	0623	34893	2746			14779								
		STD	0150	0627	3491	2747	0006438	0108	14785								
		OBS	0150	0627	34913	2747			14785								
		OBS	0160	0630	34944	2749			14788								
		OBS	0175	0628	34965	2751			14790								
		STD	0200	0622	3497	2752	0005993	0139	14792								
		OBS	0200	0622	34974	2752			14792								
		OBS	0220	0617	34976	2753			14794								
		OBS	0245	0620	35044	2758			14800								
		STD	0250	0617	3507	2760	0005317	0167	14800								
		OBS	0250	0617	35066	2760			14800								
		STD	0300	0564	3498	2760	0005341	0194	14785								
		OBS	0300	0564	34982	2760			14785								
		OBS	0315	0562	34987	2761			14787								
		OBS	0335	0527	34936	2761			14776								
		OBS	0350	0527	34977	2765			14779								
		STD	0400	0497	3496	2767	0004845	0245	14774								
		OBS	0400	0497	34956	2767			14774								
		STD	0500	0459	3495	2770	0004592	0292	14775								
		OBS	0500	0459	34945	2770			14775								
		STD	0600	0431	3495	2773	0004371	0337	14780								
		OBS	0600	0431	34945	2773			14780								
		STD	0700	0401	3492	2774	0004294	0380	14784								
		OBS	0700	0401	34922	2774			14784								
		STD	0800	0388	3492	2776	0004259	0423	14795								
		OBS	0800	0388	34919	2776			14795								
		STD	0900	0376	3491	2776	0004253	0465	14806								
		OBS	0900	0376	34913	2776			14806								
		STD	1000	0368	3491	2777	0004246	0508	14820								
		OBS	1000	0368	34913	2777			14820								
		STD	1100	0362	3491	2778	0004259	0550	14834								
		OBS	1100	0362	34913	2778			14834								
		STD	1200	0359	3492	2779	0004293	0593	14849								
		OBS	1200	0359	34923	2779			14849								
		STD	1300	0354	3493	2780	0004194	0635	14864								
		OBS	1300	0354	34931	2780			14864								
		STD	1400	0350	3494	2781	0004144	0677	14880								
		OBS	1400	0350	34942	2781			14880								
		STD	1500	0344	3494	2782	0004133	0718	14894								
		OBS	1500	0344	34944	2782			14894								

Table X.—Continued

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DUPE SQUARE	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR, 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'G	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: MA	WEATHER CODE	CLOUD CODES: TYP	CLOUD CODES: AMT		NODC STATION NUMBER
318	043	HT	5246 N	03536 W		184	25	04	29	114	1968	C20	047	3658	15	34			1	X2	0	3		0047

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	36	S11	227	067	050	7	29	

MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10⁸	Σ Δ D DYN. M. Σ 10³	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_4-Si µg-at/l	pH	REC. NO.
		STD	0000	0649	3471	2728	0008030	0000	14767								
114		OBS	0000	0649	34707	2728			14767								
		STD	0010	0649	3471	2728	0008045	0008	14768								
		OBS	0010	0649	34707	2728			14768								
		STD	0020	0647	3471	2728	0008035	0016	14769								
005		OBS	0020	0647	34707	2728			14769								
		STD	0030	0639	3471	2729	0007949	0024	14768								
		OBS	0030	0639	34707	2729			14768								
		STD	0050	0637	3471	2729	0007953	0040	14770								
		OBS	0050	0637	34707	2729			14770								
		STD	0075	0637	3471	2729	0007990	0060	14774								
		OBS	0075	0637	34707	2729			14774								
		OBS	0080	0637	34707	2729			14775								
		STD	0100	0603	3480	2741	0006928	0079	14766								
		OBS	0100	0603	34797	2741			14766								
		STD	0125	0603	3484	2744	0006665	0096	14770								
		OBS	0125	0603	34837	2744			14770								
		STD	0150	0620	3487	2744	0006691	0112	14782								
		OBS	0150	0620	34867	2744			14782								
		STD	0200	0632	3491	2746	0006576	0145	14795								
		OBS	0200	0632	34913	2746			14795								
		OBS	0210	0621	34895	2746			14792								
		OBS	0225	0621	34944	2750			14796								
		STD	0250	0625	3498	2752	0006083	0177	14802								
		OBS	0250	0625	34977	2752			14802								
		OBS	0265	0646	35057	2756			14814								
		STD	0300	0562	3494	2757	0005651	0206	14784								
		OBS	0300	0562	34937	2757			14784								
		OBS	0350	0533	34907	2758			14780								
		STD	0400	0477	3491	2765	0004974	0260	14765								
		OBS	0400	0477	34907	2765			14765								
		STD	0500	0451	3493	2769	0004633	0308	14771								
		OBS	0500	0451	34927	2769			14771								
		STD	0600	0430	3493	2772	0004493	0353	14779								
		OBS	0600	0430	34927	2772			14779								
		STD	0700	0405	3493	2774	0004303	0397	14785								
		OBS	0700	0405	34927	2774			14785								
		STD	0800	0386	3493	2776	0004176	0440	14794								
		OBS	0800	0386	34927	2776			14794								
		STD	0900	0372	3492	2777	0004140	0481	14805								
		OBS	0900	0372	34922	2777			14805								
		STD	1000	0364	3493	2779	0004095	0522	14818								
		OBS	1000	0364	34927	2779			14818								
		STD	1100	0359	3493	2779	0004120	0563	14833								
		OBS	1100	0359	34927	2779			14833								
		STD	1200	0356	3493	2780	0004152	0605	14848								
		OBS	1200	0356	34929	2780			14848								
		STD	1300	0353	3494	2781	0004116	0646	14864								
		OBS	1300	0353	34940	2781			14864								
		STD	1400	0349	3495	2782	0004110	0687	14879								
		OBS	1400	0349	34945	2782			14879								
		STD	1500	0346	3495	2782	0004137	0728	14895								
		OBS	1500	0346	34947	2782			14895								

TABLE X.—Continued

REFERENCE: STNP CODE	REFERENCE: NO. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DUPLICATE	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYP	CLOUD CODES: AMT		NODC STATION NUMBER
318043		HT	5242 N	03532 W		184	25	04	29	171	1968	C20	048	3566	15	02			1	X1	0	3		0048

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	05	S06	220	067	050	7	30	

MESSENGER TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta D$ DYN. M. $\times 10^2$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	
		STD	0000	0656	3469	2726	0008246	0000	14769								
	171	OBS	0000	0656	34690	2726			14769								
		STD	0010	0656	3469	2726	0008261	0008	14771								
		OBS	0010	0656	34690	2726			14771								
		STD	0020	0644	3467	2726	0008273	0017	14767								
	005	OBS	0020	0644	34670	2726			14767								
		STD	0030	0630	3468	2728	0008037	0025	14764								
		OBS	0030	0630	34680	2728			14764								
		STD	0050	0630	3468	2728	0008066	0041	14767								
		OBS	0050	0630	34680	2728			14767								
		OBS	0060	0635	34710	2730			14771								
		STD	0075	0635	3471	2730	0007942	0061	14773								
		OBS	0075	0635	34710	2730			14773								
		OBS	0090	0635	34710	2730			14776								
		STD	0100	0609	3477	2738	0007212	0080	14768								
		OBS	0100	0609	34769	2738			14768								
		STD	0125	0606	3483	2743	0006755	0097	14772								
		OBS	0125	0606	34830	2743			14772								
		STD	0150	0623	3488	2745	0006632	0114	14783								
		OBS	0150	0623	34880	2745			14783								
		STD	0200	0625	3490	2746	0006582	0147	14792								
		OBS	0200	0625	34900	2746			14792								
		OBS	0225	0630	34950	2750			14799								
		STD	0250	0620	3495	2751	0006219	0179	14799								
		OBS	0250	0620	34950	2751			14799								
		STD	0300	0569	3495	2757	0005641	0209	14787								
		OBS	0300	0569	34950	2757			14787								
		OBS	0350	0542	34950	2761			14784								
		OBS	0375	0512	34930	2763			14776								
		OBS	0380	0492	34910	2763			14768								
		STD	0400	0482	3491	2764	0005025	0262	14767								
		OBS	0400	0482	34908	2764			14767								
		STD	0500	0456	3492	2769	0004721	0311	14773								
		OBS	0500	0456	34923	2769			14773								
		STD	0600	0430	3493	2772	0004471	0357	14779								
		OBS	0600	0430	34930	2772			14779								
		STD	0700	0407	3493	2774	0004318	0401	14786								
		OBS	0700	0407	34928	2774			14786								
		STD	0800	0387	3492	2776	0004240	0443	14794								
		OBS	0800	0387	34920	2776			14794								
		STD	0900	0370	3491	2777	0004205	0486	14804								
		OBS	0900	0370	34910	2777			14804								
		STD	1000	0364	3491	2777	0004221	0528	14818								
		OBS	1000	0364	34910	2777			14818								
		STD	1100	0358	3492	2779	0004160	0570	14832								
		OBS	1100	0358	34920	2779			14832								
		STD	1200	0355	3493	2780	0004125	0611	14848								
		OBS	1200	0355	34931	2780			14848								
		STD	1300	0353	3493	2780	0004175	0653	14864								
		OBS	1300	0353	34932	2780			14864								
		STD	1400	0349	3493	2781	0004191	0694	14879								
		OBS	1400	0349	34934	2781			14879								
		STD	1500	0346	3494	2782	0004181	0736	14895								
		OBS	1500	0346	34941	2782			14895								

TABLE X.—Continued

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DUPE CHECK	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAT	STATION TIME (GMT): HR. 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT	WAVE OBSERVATIONS: PER	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYP	CLOUD CODES: AMT		NODC STATION NUMBER
318	043	HT	5246 N	035389W		184	25	04	29	238	1968	C20	049	3200	15	06			1	X2	0	3		0049

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	06	S10	227	067	039	7	28	

MESSENGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta D$ DYN. M. x 10^3	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	CODE
		STD	0000	0664	3471	2726	0008176	0000	14773								
234		OBS	0000	0664	34713	2726			14773								
		STD	0010	0664	3471	2726	0008192	0008	14774								
		OBS	0010	0664	34713	2726			14774								
		STD	0020	0664	3471	2726	0008229	0016	14776								
004		OBS	0020	0664	34710	2726			14776								
		STD	0030	0644	3470	2728	0008079	0025	14769								
		OBS	0030	0644	34698	2728			14769								
		STD	0050	0640	3471	2729	0007983	0041	14771								
		OBS	0050	0640	34708	2729			14771								
		STD	0075	0639	3474	2732	0007747	0060	14775								
		OBS	0075	0639	34743	2732			14775								
		STD	0100	0609	3483	2743	0006734	0078	14769								
		OBS	0100	0609	34833	2743			14769								
		OBS	0110	0604	34843	2744			14768								
		STD	0125	0605	3484	2744	0006648	0095	14771								
		OBS	0135	0606	34843	2744			14773								
		STD	0150	0613	3486	2745	0006632	0112	14779								
		OBS	0150	0613	34863	2745			14779								
		STD	0200	0632	3497	2751	0006129	0144	14796								
		OBS	0200	0632	34973	2751			14796								
		OBS	0210	0616	34953	2752			14791								
		OBS	0225	0630	35013	2754			14800								
		STD	0250	0609	3500	2756	0005705	0173	14796								
		OBS	0250	0609	3599P	2834P											
		STD	0300	0567	3497	2759	0005445	0201	14787								
		OBS	0300	0567	34973	2759			14787								
		OBS	0365	0507	34928	2763			14772								
		STD	0400	0498	3493	2765	0005029	0253	14774								
		OBS	0400	0498	34933	2765			14774								
		STD	0500	0463	3496	2771	0004542	0301	14777								
		OBS	0500	0463	34958	2771			14777								
		STD	0600	0420	3493	2773	0004333	0346	14775								
		OBS	0600	0420	34933	2773			14775								
		STD	0700	0403	3493	2775	0004235	0389	14785								
		OBS	0700	0403	34933	2775			14785								
		STD	0800	0388	3493	2776	0004207	0431	14795								
		OBS	0800	0388	34926	2776			14795								
		STD	0900	0377	3493	2777	0004154	0473	14807								
		OBS	0900	0377	34928	2777			14807								
		STD	1000	0367	3493	2778	0004123	0514	14819								
		OBS	1000	0367	34928	2778			14819								
		STD	1100	0358	3493	2779	0004101	0555	14832								
		OBS	1100	0358	34928	2779			14832								
		STD	1200	0355	3493	2780	0004147	0596	14848								
		OBS	1200	0355	34928	2780			14848								
		STD	1300	0353	3494	2781	0004131	0638	14864								
		OBS	1300	0353	34938	2781			14864								
		STD	1400	0349	3495	2782	0004095	0679	14879								
		OBS	1400	0349	34947	2782			14879								
		STD	1500	0347	3495	2782	0004105	0720	14895								
		OBS	1500	0347	34953	2782			14895								

Table X.—Continued

REFERENCE		SHIP CODE	LATITUDE	LONGITUDE	DATA TYPE	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES			NODC STATION NUMBER
CTRY CODE	NO.		1/10	1/10		10°	1°	MO	DAY	HR 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYP	AMT		
318043	HT	5251 N		03519 W	D	184	25	04	30	051	1968	C20	050	2631	15	06			2	X2	0	3		0050

WATER		WIND		BARO-METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
DT	SD	05	S07	213	061	028	6	28	

MESSENGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10⁷	ΔD DYN. M. x 10³	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_4-Si µg-at/l	pH	REMARKS
		STD	0000	0676	3477	2729	0007943	0000	14778								
	051	OBS	0000	0676	34765	2729			14778								
		STD	0010	0676	3477	2729	0007958	0008	14780								
		OBS	0010	0676	34765	2729			14780								
		STD	0020	0676	3477	2729	0007974	0016	14781								
	004	OBS	0020	0676	34765	2729			14781								
		STD	0030	0675	3477	2729	0007977	0024	14783								
		OBS	0030	0675	34765	2729			14783								
		OBS	0032	0674	34763	2729			14782								
		OBS	0040	0658	34760	2731			14777								
		STD	0050	0659	3476	2731	0007838	0040	14779								
		OBS	0050	0659	34760	2731			14779								
		STD	0075	0654	3479	2734	0007588	0059	14782								
		OBS	0075	0654	34790	2734			14782								
		STD	0100	0642	3484	2739	0007099	0077	14782								
		OBS	0100	0642	34840	2739			14782								
		STD	0125	0635	3486	2742	0006883	0095	14784								
		OBS	0125	0635	34862	2742			14784								
		STD	0150	0631	3489	2745	0006660	0112	14786								
		OBS	0150	0631	34890	2745			14786								
		OBS	0175	0630	34940	2749			14791								
		STD	0200	0608	3495	2752	0005993	0143	14786								
		OBS	0200	0608	34950	2752			14786								
		STD	0250	0584	3497	2757	0005612	0172	14785								
		OBS	0250	0584	34970	2757			14785								
		STD	0300	0538	3495	2761	0005260	0200	14774								
		OBS	0300	0538	34950	2761			14774								
		OBS	0350	0513	34953	2764			14773								
		STD	0400	0492	3494	2766	0004905	0250	14772								
		OBS	0400	0492	34940	2766			14772								
		STD	0500	0453	3495	2771	0004485	0297	14773								
		OBS	0500	0453	34950	2771			14773								
		STD	0600	0429	3495	2774	0004289	0341	14779								
		OBS	0600	0429	34953	2774			14779								
		STD	0700	0400	3495	2776	0004111	0383	14784								
		OBS	0700	0400	34945	2776			14784								
		STD	0800	0392	3494	2777	0004149	0425	14797								
		OBS	0800	0392	34940	2777			14797								
		STD	0900	0379	3494	2778	0004125	0466	14808								
		OBS	0900	0379	34935	2778			14808								
		STD	1000	0370	3494	2779	0004048	0507	14821								
		OBS	1000	0370	34943	2779			14821								
		STD	1100	0361	3495	2780	0004011	0547	14834								
		OBS	1100	0361	34945	2780			14834								
		STD	1200	0355	3496	2782	0003948	0587	14848								
		OBS	1200	0355	34955	2782			14848								
		STD	1300	0352	3496	2782	0003956	0626	14864								
		OBS	1300	0352	34960	2782			14864								
		STD	1400	0351	3497	2783	0003988	0666	14880								
		OBS	1400	0351	34965	2783			14880								
		STD	1500	0347	3497	2783	0004017	0706	14895								
		OBS	1500	0347	34965	2783			14895								

TABLE X.—Continued

REFERENCE: CSTY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	QUAD	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR. 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'G	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT.	WAVE OBSERVATIONS: PER.	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT		NODC STATION NUMBER
	318043	HT	05246 N	03536 W		184	25	04	30	118	1968	C20	051	3292	15	04			2	X2	0	3		0051

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	05	S04	227	061	033	7	30	

MESSENGER Hund. HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10⁸	Σ Δ D DYN. M. x 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₃-N µg-at/l	NO₂-N µg-at/l	Si O₄-Si µg-at/l	pH	-100
		STD	0000	0672	34778	2730	0007794	0000	14777								
	114	OBS	0000	0672	34778	2730			14777								
		STD	0010	0672	34778	2730	0007810	0008	14778								
		OBS	0010	0672	34778	2730			14778								
		STD	0020	0672	34778	2730	0007825	0016	14780								
	005	OBS	0020	0672	34778	2730			14780								
		STD	0030	0672	34778	2730	0007841	0023	14782								
		OBS	0030	0672	34778	2730			14782								
		OBS	0040	0656	34778	2732			14777								
		STD	0050	0656	34778	2732	0007665	0039	14778								
		OBS	0050	0656	34778	2732			14778								
		STD	0075	0656	34778	2732	0007703	0058	14783								
		OBS	0075	0656	34778	2732			14783								
		OBS	0085	0655	34778	2733			14784								
		STD	0100	0643	34782	2737	0007298	0077	14782								
		OBS	0100	0643	34815	2737			14782								
		STD	0125	0631	34784	2740	0007033	0095	14782								
		OBS	0125	0631	34835	2740			14782								
		STD	0150	0624	34786	2743	0006831	0112	14783								
		OBS	0150	0624	34855	2743			14783								
		STD	0200	0623	34794	2749	0006296	0145	14792								
		OBS	0200	0623	34935	2749			14792								
		STD	0250	0603	34797	2754	0005889	0175	14793								
		OBS	0250	0603	34965	2754			14793								
		STD	0300	0552	34796	2760	0005394	0204	14780								
		OBS	0300	0552	34955	2760			14780								
		OBS	0335	0510	34925	2763			14768								
		OBS	0350	0510	34945	2764			14771								
		OBS	0360	0502	34945	2765			14770								
		STD	0400	0480	34795	2768	0004727	0254	14767								
		OBS	0400	0480	34945	2768			14767								
		STD	0500	0445	34795	2772	0004429	0300	14769								
		OBS	0500	0445	34945	2772			14769								
		STD	0600	0430	34795	2773	0004360	0344	14779								
		OBS	0600	0430	34945	2773			14779								
		STD	0700	0411	34795	2775	0004239	0387	14788								
		OBS	0700	0411	34945	2775			14788								
		STD	0800	0393	34794	2776	0004198	0429	14797								
		OBS	0800	0393	34935	2776			14797								
		STD	0900	0382	34794	2777	0004161	0471	14809								
		OBS	0900	0382	34935	2777			14809								
		OBS	0950	0377	34941	2778			14815								
		STD	1000	0362	34794	2780	0003968	0512	14817								
		OBS	1000	0362	34941	2780			14817								
		STD	1100	0359	34794	2780	0004017	0552	14833								
		OBS	1100	0359	34941	2780			14833								
		STD	1200	0357	34795	2781	0004017	0592	14849								
		OBS	1200	0357	34949	2781			14849								
		STD	1300	0353	34795	2782	0004028	0632	14864								
		OBS	1300	0353	34952	2782			14864								
		STD	1400	0349	34796	2782	0004029	0672	14879								
		OBS	1400	0349	34956	2782			14879								
		STD	1500	0346	34796	2783	0004056	0713	14895								
		OBS	1500	0346	34958	2783			14895								

TABLE X.—Continued

REFERENCE CTRY CODE	REFERENCE ID NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUPE INDICTR	MARSDEN SQUARE 10°	MARSDEN SQUARE 1°	STATION TIME (GMT) MO	STATION TIME (GMT) DAY	STATION TIME (GMT) HR 1/10	YEAR	ORIGINATOR'S CRUISE NO.	ORIGINATOR'S STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS DIR.	WAVE OBSERVATIONS HGT	WAVE OBSERVATIONS PER	WAVE OBSERVATIONS SEA	WEATHER CODE	CLOUD CODES TYPE	CLOUD CODES AMT		NODC STATION NUMBER
318	043	HT	5244 N	03534 W		184	25	04	30	172	1968	C20	052	3658	15	02	3	4		X2	0	3		0052

WATER COLOR CODE	WATER TRANS. (m)	WIND DIR.	WIND SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP °C DRY BULB	AIR TEMP °C WET BULB	VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	04	S15	196	067	044	7	35	

MESSENGR TIME OF HR 1/10	CAST NO	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA–T	SPECIFIC VOLUME ANOMALY–10^7	Σ Δ D DYN. M. × 10^3	SO ND VELOCITY	O_2 ml/l	PO_4–P µg-at/l	TOTAL–P µg-at/l	NO_2–N µg-at/l	NO_3–N µg-at/l	SiO_4–Si µg-at/l	pH	DOC
		STD	0000	0652	3474	2730	0007859	0000	14768								
072		OBS	0000	0652	34735	2730			14768								
		STD	0010	0652	3474	2730	0007874	0008	14770								
		OBS	0010	0652	34735	2730			14770								
006		OBS	0015	0651	34735	2730			14770								
		STD	0020	0646	3474	2730	0007813	0016	14769								
		OBS	0020	0646	34735	2730			14769								
		STD	0030	0646	3474	2730	0007828	0024	14771								
		OBS	0030	0646	34735	2730			14771								
		OBS	0040	0646	34735	2730			14772								
		STD	0050	0640	3474	2731	0007774	0039	14772								
		OBS	0050	0640	34736	2731			14772								
		OBS	0060	0637	34760	2734			14772								
		OBS	0065	0650	34800	2735			14779								
		STD	0075	0634	3478	2736	0007407	0058	14774								
		OBS	0075	0634	34780	2736			14774								
		STD	0100	0631	3483	2740	0007011	0076	14777								
		OBS	0100	0631	34833	2740			14777								
		STD	0125	0612	3481	2740	0007016	0094	14774								
		OBS	0125	0612	34805	2740			14774								
		STD	0150	0611	3486	2745	0006637	0111	14778								
		OBS	0150	0611	34859	2745			14778								
		OBS	0175	0606	34870	2746			14780								
		OBS	0180	0602	34900	2749			14780								
		STD	0200	0620	3496	2752	0006049	0142	14791								
		OBS	0200	0620	34963	2752			14791								
		OBS	0245	0647	35060	2756			14811								
		STD	0250	0645	3506	2756	0005764	0172	14811								
		OBS	0250	0645	35055	2756			14811								
		STD	0300	0567	3498	2760	0005431	0200	14787								
		OBS	0300	0567	34975	2760			14787								
		OBS	0330	0533	34970	2763			14778								
		OBS	0355	0534	34979	2764			14782								
		STD	0400	0487	3493	2766	0004906	0252	14770								
		OBS	0400	0487	34932	2766			14770								
		OBS	0415	0480	34920	2766			14769								
		OBS	0430	0489	34935	2766			14776								
		STD	0500	0452	3495	2771	0004473	0299	14772								
		OBS	0500	0452	34950	2771			14772								
		STD	0600	0428	3494	2773	0004381	0343	14779								
		OBS	0600	0428	34939	2773			14779								
		STD	0700	0403	3491	2773	0004391	0387	14784								
		OBS	0700	0403	34912	2773			14784								
		STD	0800	0383	3492	2776	0004193	0430	14793								
		OBS	0800	0383	34920	2776			14793								
		STD	0900	0371	3491	2777	0004187	0472	14804								
		OBS	0900	0371	34914	2777			14804								
		STD	1000	0364	3492	2778	0004184	0513	14818								
		OBS	1000	0364	34915	2778			14818								
		STD	1100	0355	3492	2779	0004161	0555	14831								
		OBS	1100	0355	34915	2779			14831								
		STD	1200	0353	3492	2779	0004167	0597	14847								
		OBS	1200	0353	34922	2779			14847								
		STD	1300	0350	3493	2780	0004145	0638	14863								
		OBS	1300	0350	34931	2780			14863								
		STD	1400	0345	3493	2781	0004155	0680	14877								
		OBS	1400	0345	34932	2781			14877								
		STD	1500	0345	3494	2782	0004175	0721	14894								
		OBS	1500	0345	34940	2782			14894								

TABLE X.—Continued

REFERENCE: CTRY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	QUADRANT SQUARE	STATION TIME (GMT): MO	DAY	HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT.	WAVE OBSERVATIONS: PER.	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT.	NODC STATION NUMBER
318043		MT	5242 N	03535 W	184	04	30	238	1968	C20	053	36	15	04			3	X2	0	3	0053

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP. °C: DRY BULB	AIR TEMP. °C: WET BULB	VIS. CODE	NO. OBS DEPTHS	SPECIAL OBSERVATIONS
DT	SD	04	S10	207	061	044	7	33	

MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^7	$\Sigma\Delta D$ DYN. M. $\Sigma 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_2-N µg-at/l	NO_3-N µg-at/l	SiO_4-Si µg-at/l	pH	QUALITY
		STD	0000	0649	3472	2729	0007940	0000	14767								
233		OBS	0000	0649	34719	2729			14767								
		STD	0010	0649	3472	2729	0007955	0008	14768								
		OBS	0010	0649	34719	2729			14768								
		STD	0020	0649	3472	2729	0007970	0016	14770								
005		OBS	0020	0649	34719	2729			14770								
		STD	0030	0649	3472	2729	0007986	0024	14772								
		OBS	0030	0649	34719	2729			14772								
		STD	0050	0644	3474	2731	0007825	0040	14773								
		OBS	0050	0644	34736	2731			14773								
		OBS	0060	0634	34720	2731			14771								
		STD	0075	0635	3472	2731	0007853	0059	14773								
		OBS	0075	0635	34722	2731			14773								
		OBS	0090	0636	34722	2731			14776								
		STD	0100	0636	3480	2737	0007306	0078	14779								
		OBS	0100	0636	34802	2737			14779								
		OBS	0110	0611	34819	2742			14771								
		STD	0125	0612	3485	2744	0006666	0096	14774								
		OBS	0125	0612	34852	2744			14774								
		STD	0150	0621	3488	2745	0006600	0112	14782								
		OBS	0150	0621	34881	2745			14782								
		STD	0200	0624	3490	2747	0006554	0145	14792								
		OBS	0200	0624	34902	2747			14792								
		OBS	0230	0628	34974	2752			14800								
		STD	0250	0613	3498	2754	0005935	0176	14797								
		OBS	0250	0613	34976	2754			14797								
		OBS	0270	0620	35012	2756			14803								
		STD	0300	0580	3498	2758	0005541	0205	14792								
		OBS	0300	0580	34982	2758			14792								
		OBS	0370	0514	34962	2765			14776								
		OBS	0380	0484	34915	2765			14765								
		STD	0400	0479	3492	2765	0004938	0257	14766								
		OBS	0400	0479	34915	2765			14766								
		OBS	0450	0452	34902	2767			14763								
		OBS	0465	0466	34942	2769			14772								
		STD	0500	0451	3494	2771	0004521	0305	14772								
		OBS	0500	0451	34942	2771			14772								
		STD	0600	0433	3494	2773	0004417	0349	14781								
		OBS	0600	0433	34942	2773			14781								
		STD	0700	0409	3493	2774	0004312	0393	14787								
		OBS	0700	0409	34932	2774			14787								
		STD	0800	0390	3493	2776	0004186	0436	14796								
		OBS	0800	0390	34932	2776			14796								
		STD	0900	0372	3493	2778	0004066	0477	14805								
		OBS	0900	0372	34932	2778			14805								
		STD	1000	0367	3492	2778	0004168	0518	14819								
		OBS	1000	0367	34922	2778			14819								
		STD	1100	0358	3492	2779	0004145	0560	14832								
		OBS	1100	0358	34922	2779			14832								
		STD	1200	0356	3493	2780	0004130	0601	14848								
		OBS	1200	0356	34932	2780			14848								
		STD	1300	0350	3494	2781	0004064	0642	14863								
		OBS	1300	0350	34942	2781			14863								
		STD	1400	0348	3494	2781	0004119	0683	14879								
		OBS	1400	0348	34942	2781			14879								
		STD	1500	0346	3494	2782	0004173	0724	14895								
		OBS	1500	0346	34942	2782			14895								

Table X.—Continued

REFERENCE: CTRY CODE	REFERENCE: NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	QUAD NO.	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR.1/10	YEAR	ORIGINATOR'S: CRUISE NO	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'G	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT.	WAVE OBSERVATIONS: PER.	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYP.	CLOUD CODES: AMT.	NODC STATION NUMBER
31	8043	HT	5247 N	03532 W		184	25	05	01	052	1968	C20	054	3292	15	04			3	X2	C	3	0054

WATER: COLOR CODE	WATER: TRANS. mm	WIND: DIR.	WIND: SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP °C: DRY BULB	AIR TEMP °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	04	S15	196	056	039	7	28	

MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10⁸	Σ Δ D DYN. M. Σ 10³	SOUND VELOCITY	O₂ ml/l	PO₄-P µg-at/l	TOTAL-P µg-at/l	NO₃-N µg-at/l	NO₂-N µg-at/l	SiO₄-Si µg-at/l	pH	QUAL CODE
		STD	0000	0670	3478	2731	0007746	0000	14776								
052		OBS	0000	0670	34781	2731			14776								
		STD	0010	0670	3478	2731	0007761	0008	14778								
		OBS	0010	0670	34781	2731			14778								
		STD	0020	0671	3478	2731	0007790	0016	14780								
005		OBS	0020	0671	34781	2731			14780								
		STD	0030	0658	3478	2732	0007638	0023	14776								
		OBS	0030	0658	34781	2732			14776								
		OBS	0040	0655	34785	2733			14777								
		STD	0050	0655	3479	2733	0007600	0038	14778								
		OBS	0050	0655	34785	2733			14778								
		STD	0075	0634	3481	2738	0007213	0057	14774								
		OBS	0075	0634	34806	2738			14774								
		STD	0100	0633	3484	2740	0006984	0075	14778								
		OBS	0100	0633	34840	2740			14778								
		STD	0125	0632	3489	2744	0006638	0092	14783								
		OBS	0132	0632	34896	2745			14784								
		OBS	0140	0613	34900	2748			14778								
		STD	0150	0623	3489	2746	0006558	0108	14783								
		OBS	0150	0623	34890	2746			14783								
		OBS	0175	0633	34946	2749			14792								
		STD	0200	0637	3497	2750	0006246	0140	14798								
		OBS	0200	0637	34966	2750			14798								
		STD	0250	0609	3500	2756	0005735	0170	14796								
		OBS	0250	0609	34996	2756			14796								
		STD	0300	0564	3497	2759	0005453	0198	14785								
		OBS	0300	0564	34967	2759			14785								
		OBS	0310	0541	34967	2762			14778								
		STD	0400	0505	3498	2767	0004800	0249	14778								
		OBS	0400	0505	34975	2767			14778								
		STD	0500	0448	3494	2771	0004524	0296	14770								
		OBS	0500	0448	34937	2771			14770								
		STD	0600	0422	3495	2774	0004252	0340	14776								
		OBS	0600	0422	34947	2774			14776								
		STD	0700	0406	3494	2776	0004195	0382	14786								
		OBS	0700	0406	34943	2776			14786								
		STD	0800	0394	3494	2776	0004188	0424	14798								
		OBS	0800	0394	34938	2776			14798								
		STD	0900	0378	3493	2778	0004128	0466	14807								
		OBS	0900	0378	34933	2778			14807								
		STD	1000	0367	3493	2778	0004138	0507	14819								
		OBS	1000	0367	34926	2778			14819								
		STD	1100	0360	3493	2779	0004139	0548	14833								
		OBS	1100	0360	34926	2779			14833								
		STD	1200	0356	3493	2780	0004115	0590	14848								
		OBS	1200	0356	34934	2780			14848								
		STD	1300	0353	3494	2781	0004094	0631	14864								
		OBS	1300	0353	34943	2781			14864								
		STD	1400	0350	3495	2782	0004086	0672	14880								
		OBS	1400	0350	34950	2782			14880								
		STD	1500	0346	3496	2783	0004056	0712	14895								
		OBS	1500	0346	34958	2783			14895								

TABLE X.—Continued

REFERENCE: CSBY CODE	REFERENCE: ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DOUBLE PUNCH	MARSDEN SQUARE: 10°	MARSDEN SQUARE: 1°	STATION TIME (GMT): MO	STATION TIME (GMT): DAY	STATION TIME (GMT): HR 1/10	YEAR	ORIGINATOR'S: CRUISE NO.	ORIGINATOR'S: STATION NUMBER	DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS: DIR.	WAVE OBSERVATIONS: HGT.	WAVE OBSERVATIONS: PER.	WAVE OBSERVATIONS: SEA	WEATHER CODE	CLOUD CODES: TYPE	CLOUD CODES: AMT.		NODC STATION NUMBER
318043		HT	5249 N	03528 W		184	25	05	01	110	1968	C20	055	3383	15	04			2	X2	0	3		0055

WATER: COLOR CODE	WATER: TRANS. (m)	WIND: DIR.	WIND: SPEED OR FORCE	BAROMETER (mbs)	AIR TEMP °C: DRY BULB	AIR TEMP °C: WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
DT	SD	04	S10	224	072	061	7	27	

MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10^8	$\Sigma\Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O_2 ml/l	PO_4-P µg-at/l	TOTAL-P µg-at/l	NO_3-N µg-at/l	NO_2-N µg-at/l	SiO_4-Si µg-at/l	pH	SCC
		STD	0000	0657	3479	2733	0007497	0000	14771								
113		OBS	0000	0657	34792	2733			14771								
		STD	0010	0657	3479	2733	0007512	0008	14773								
		OBS	0010	0657	34792	2733			14773								
		STD	0020	0657	3479	2733	0007528	0015	14774								
005		OBS	0020	0657	34792	2733			14774								
		STD	0030	0655	3479	2733	0007540	0023	14775								
		OBS	0030	0655	34789	2733			14775								
		OBS	0040	0655	34789	2733			14777								
		STD	0050	0653	3480	2735	0007433	0038	14778								
		OBS	0050	0653	34804	2735			14778								
		STD	0075	0644	3481	2737	0007281	0056	14778								
		OBS	0075	0644	34814	2737			14778								
		STD	0100	0633	3481	2738	0007178	0074	14778								
		OBS	0100	0633	34814	2738			14778								
		STD	0125	0628	3487	2743	0006741	0091	14781								
		OBS	0125	0628	34869	2743			14781								
		STD	0150	0621	3492	2748	0006339	0108	14783								
		OBS	0150	0621	34916	2748			14783								
		OBS	0175	0635	34954	2749			14793								
		STD	0200	0627	3497	2751	0006094	0139	14794								
		OBS	0200	0627	34969	2751			14794								
		OBS	0220	0630	34974	2751			14799								
		STD	0250	0593	3494	2753	0005956	0169	14788								
		OBS	0250	0593	34939	2753			14788								
		STD	0300	0560	3494	2758	0005612	0198	14783								
		OBS	0300	0560	34939	2758			14783								
		STD	0400	0499	3491	2763	0005182	0252	14775								
		OBS	0400	0499	34914	2763			14775								
		STD	0500	0456	3492	2768	0004751	0302	14773								
		OBS	0500	0456	34919	2768			14773								
		STD	0600	0421	3492	2772	0004449	0348	14775								
		OBS	0600	0421	34919	2772			14775								
		STD	0700	0400	3492	2774	0004334	0391	14783								
		OBS	0700	0400	34915	2774			14783								
		STD	0800	0388	3491	2775	0004296	0435	14795								
		OBS	0800	0388	34914	2775			14795								
		STD	0900	0381	3492	2776	0004267	0477	14809								
		OBS	0900	0381	34919	2776			14809								
		STD	1000	0373	3492	2777	0004246	0520	14822								
		OBS	1000	0373	34921	2777			14822								
		STD	1100	0363	3493	2779	0004175	0562	14834								
		OBS	1100	0363	34926	2779			14834								
		STD	1200	0358	3493	2779	0004184	0604	14849								
		OBS	1200	0358	34928	2779			14849								
		STD	1300	0355	3494	2781	0004111	0645	14865								
		OBS	1300	0355	34944	2781			14865								
		STD	1400	0351	3495	2782	0004120	0686	14880								
		OBS	1400	0351	34947	2782			14880								
		STD	1500	0347	3495	2782	0004120	0728	14895								
		OBS	1500	0347	34951	2782			14895								

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